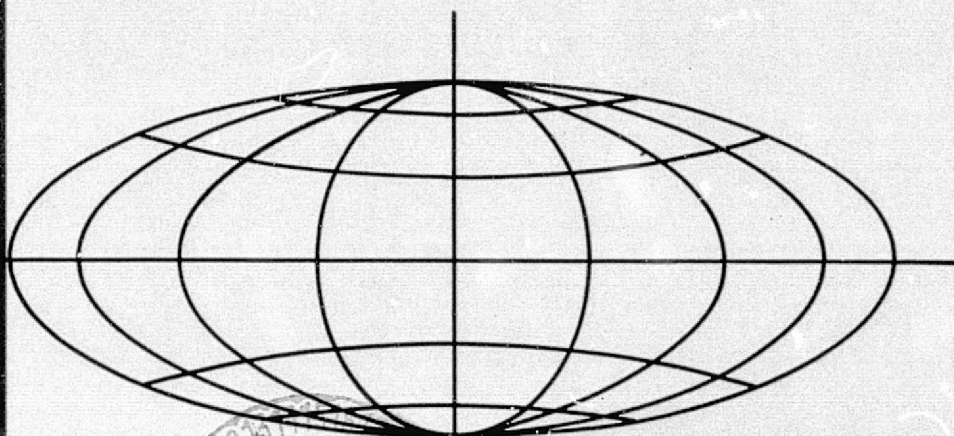


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Volume II - Data



Westinghouse

DEFENSE AND ELECTRONIC
SYSTEMS CENTER
BALTIMORE, MARYLAND

N78-30522

Unclas
30520

TIME DELAY AND INTEGRATION ARRAY (TDI)
USING CHARGE TRANSFER DEVICE TECHNOLOGY

PHASE II FINAL REPORT

CONTRACT No. NAS 5-23629

VOLUME II - DATA

21 OCTOBER 1977

PRESENTED TO

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

By

WESTINGHOUSE DEFENSE AND ELECTRONIC SYSTEMS CENTER
SYSTEMS DEVELOPMENT DIVISION
BALTIMORE, MARYLAND

A. CORRELATED DOUBLE SAMPLE READOUT TEST RESULTS

The tests that are included are listed in the table below. The test in

CHIP #	FORWARD				REVERSE				SPECTRAL FOR TDI-9
	TDI-3	TDI-6	TDI-9	LEAK.	TDI-3	TDI-6	TDI-9	LEAK.	
11-1	X	X	X		X	X	X		X
11-5	X		X	X	X			X	X
11-3	X		X	X	X			X	X
11-7	X		X	X	X			X	X
11-17	X		X	X	X			X	X
11-13	X	X	X		X	X	X		X

each mode consists of the acquisition of the output of each detector of the array at 14 illumination levels. 256 samples of each detector are acquired and the mean and standard deviations are listed. In addition the deviation of the signal from a straight line between dark and maximum output is listed for each element of chips 11-1 and 11-5 and for 4 elements for the remainder. The spectral test was performed in the forward direction at TDI-9 only. It consisted of output acquisition and 16 spectral wavelengths plus dark. The relative spectral response was calculated for each element of chips 11-1 and 11-5 and for 4 elements or the reaminder. During these tests the correlated double sample unit operating characteristics remained unchanged except for an output attenuation of ~2X for TDI-9 measurements of sensors 11-7, 11-17, and 11-1.

TAPE: FA30

FILE: 11

CHIP: 3453-11-1

DIRECTION: F

TDI-1

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	565.336	509.371	580.234	562.930	547.211	545.324	586.305	532.562	526.238	546.234
LEVEL	0.7732	565.012	509.645	593.910	576.469	560.398	558.812	591.785	545.984	539.414	560.877
LEVEL	1.2712	565.535	509.859	606.543	589.461	572.742	571.742	611.242	558.703	551.734	570.371
LEVEL	2.9234	566.059	511.090	641.137	624.469	607.137	606.312	633.305	594.551	585.711	603.320
LEVEL	4.2186	566.977	512.098	666.965	650.598	633.164	632.734	663.371	619.406	610.828	627.387
LEVEL	9.4512	570.230	517.477	775.090	759.953	739.270	740.633	772.812	725.809	716.180	725.902
LEVEL	13.0666	571.855	521.473	848.488	834.344	811.668	814.070	859.148	796.754	786.828	792.562
LEVEL	19.2944	574.195	527.945	975.246	963.770	937.238	941.441	984.477	924.297	913.176	912.887
LEVEL	26.1490	576.730	533.918	1117.871	1109.062	1081.059	1084.766	1130.910	1064.641	1055.031	1050.008
LEVEL	39.4152	579.703	542.418	1383.156	1378.309	1349.363	1350.715	1401.405	1331.664	1319.891	1304.742
LEVEL	49.7080	581.863	547.074	1592.121	1589.465	1559.836	1559.785	1605.109	1538.297	1526.645	1507.699
LEVEL	60.3326	584.152	550.926	1807.879	1807.289	1777.437	1776.996	1817.496	1754.648	1741.672	1717.891
LEVEL	80.4114	588.609	557.113	2223.570	2226.105	2195.355	2193.809	2231.777	2165.691	2152.676	2121.883
LEVEL	90.1826	590.672	559.484	2410.344	2414.070	2383.098	2380.344	2420.344	2349.859	2336.734	2303.520

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	531.352	522.840	1549.910	1560.773	1632.613	1676.027	1703.437	1690.203	1657.383	1624.305
LEVEL	0.7732	544.137	534.910	1569.234	1577.656	1649.070	1691.141	1718.859	1707.590	1673.820	1639.844
LEVEL	1.2712	556.762	546.527	1586.609	1591.691	1662.270	1705.590	1733.668	1721.238	1688.094	1654.930
LEVEL	2.9234	590.148	578.219	1635.641	1632.996	1704.102	1746.070	1774.352	1762.168	1728.586	1695.922
LEVEL	4.2186	615.434	602.230	1672.020	1663.227	1734.418	1776.891	1802.676	1792.871	1759.102	1725.926
LEVEL	9.4512	719.523	701.648	1823.469	1790.539	1862.750	1901.660	1924.953	1916.656	1883.906	1853.504
LEVEL	13.0666	787.648	769.078	1925.570	1874.539	1949.031	1986.891	2006.172	2000.547	1970.078	1940.121
LEVEL	19.2944	901.375	885.500	2101.156	2026.953	2095.816	2129.547	2143.992	2145.613	2118.965	2089.965
LEVEL	26.1490	1030.129	1017.105	2301.996	2194.176	2263.836	2290.711	2305.285	2312.754	2291.898	2261.789
LEVEL	39.4152	1279.902	1261.359	2669.828	2506.848	2573.375	2584.316	2612.945	2625.465	2608.422	2574.195
LEVEL	49.7080	1479.320	1452.320	2958.574	2750.328	2816.031	2819.141	2857.753	2869.672	2854.945	2819.691
LEVEL	60.3326	1686.973	1650.809	3257.395	3004.855	3069.133	3064.113	3112.469	3122.402	3110.141	3072.039
LEVEL	80.4114	2087.543	2031.695	3832.957	3494.027	3556.520	3542.469	3600.465	3611.078	3600.156	3560.523
LEVEL	90.1826	2267.102	2202.191	4041.246	3714.324	3775.402	3759.754	3819.824	3830.211	3819.453	3779.711

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1630.465	1585.461	1463.527	1520.656
LEVEL	0.7732	1649.406	1602.285	1463.559	1520.734
LEVEL	1.2712	1669.289	1616.977	1463.984	1520.801
LEVEL	2.9234	1709.520	1658.207	1465.000	1521.512
LEVEL	4.2186	1740.312	1689.238	1465.582	1521.574
LEVEL	9.4512	1871.449	1816.727	1470.305	1524.656
LEVEL	13.0666	1957.082	1901.918	1474.660	1527.070
LEVEL	19.2944	2099.492	2048.391	1482.656	1530.547
LEVEL	26.1490	2267.828	2213.609	1491.484	1534.199
LEVEL	39.4152	2575.727	2526.730	1501.488	1537.520
LEVEL	49.7080	2815.648	2771.047	1505.660	1538.996
LEVEL	60.3326	3068.918	3024.676	1509.531	1541.703
LEVEL	80.4114	3549.465	3513.641	1515.551	1546.105
LEVEL	90.1826	3769.234	3732.328	1517.437	1548.289

DEVIATION FROM STRAIGHT LINE FIT

		10	9	8	7	6	5	4	3	2	1
LEVEL	0.7732	-0.17	+0.12	+0.36	+0.05	+8.05	-0.01	+0.18	-1.78	+0.02	+0.32
LEVEL	1.2712	-0.51	-0.44	+0.34	-0.55	+0.91	-0.53	+0.02	+0.63	-0.94	-0.02
LEVEL	2.9234	-1.58	-1.53	-0.41	-1.50	+12.45	-3.08	-0.78	-0.12	-2.53	-0.94
LEVEL	4.2186	-1.12	-1.08	-0.07	-1.57	+8.73	-1.83	+0.10	+1.05	-2.89	-0.83
LEVEL	9.4512	-3.06	-3.02	+0.34	-3.00	+5.70	-2.79	-0.20	+4.50	-6.27	-2.81
LEVEL	13.0666	-3.09	-3.20	+1.54	-2.87	-7.11	-0.88	+1.73	+8.29	-4.80	-2.92
LEVEL	19.2944	-3.46	-4.79	+2.76	-3.51	-5.78	-2.92	+0.42	+9.32	+1.34	-3.36
LEVEL	26.1490	-3.96	-6.32	+1.52	-4.33	-9.78	-2.14	-0.83	+8.67	+7.39	-4.55
LEVEL	39.4152	-3.05	-6.32	+0.24	-3.38	-13.52	-4.83	-2.36	+9.53	+10.08	-4.54
LEVEL	49.7080	-3.15	-6.20	-0.70	-3.02	-7.90	-4.06	-2.48	+7.13	+8.76	-3.84
LEVEL	60.3326	-3.30	-5.95	-2.02	-4.04	-4.22	-6.31	-4.21	+3.97	+5.60	-4.48
LEVEL	80.4114	-3.17	-4.16	-2.80	-3.92	-1.78	-4.45	-3.85	-0.75	-0.59	-3.80
		20	19	18	17	16	15	14	13	12	11
LEVEL	0.7732	-0.94	-0.99	-0.65	+0.26	+0.19	-1.60	-0.48	+0.36	-3.16	-0.98
LEVEL	1.2712	-1.58	-0.56	+0.55	-0.19	-0.40	-0.87	-0.24	-0.24	-8.68	-1.26
LEVEL	2.9234	-4.97	-2.41	-2.03	-2.50	-2.31	-2.59	-1.18	-1.75	-9.72	-3.15
LEVEL	4.2186	-5.57	-1.71	-1.57	-3.39	-0.24	-2.56	-0.58	-0.86	-9.80	-3.95
LEVEL	9.4512	-12.47	-4.07	-5.57	-7.26	+0.28	-2.18	+0.06	-3.31	-16.84	-6.27
LEVEL	13.0666	-14.69	-3.74	-6.39	-8.95	+3.91	-0.28	+0.57	-3.52	-16.73	-5.40
LEVEL	19.2944	-18.22	-5.43	-4.75	-7.71	+12.25	+2.44	+0.99	-4.51	-11.44	-3.61
LEVEL	26.1490	-25.59	-5.40	-6.36	-7.05	+15.31	+1.50	-4.03	-8.95	-13.68	-2.10
LEVEL	39.4152	-31.05	-4.84	-4.23	+2.42	+15.48	+0.05	-6.08	-7.85	-10.49	-2.96
LEVEL	49.7080	-35.46	-2.54	-2.33	+5.42	+12.21	+0.08	-5.85	-7.35	-6.32	-2.25
LEVEL	60.3326	-40.78	-3.36	-2.99	+5.93	+6.83	-0.53	-6.33	-5.77	-7.61	-2.96
LEVEL	80.4114	-50.29	-3.22	-3.52	+1.02	-0.30	-2.98	-5.10	-4.52	-2.21	-4.14

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	1B	1A	1C	9	8	7	6	5	4	3
LEVEL	0.0000	1.675	1.773	2.023	2.041	1.890	1.749	2.109	1.779	1.725	1.998
LEVEL	0.7732	1.739	1.639	1.967	1.817	1.755	1.663	2.776	1.778	1.813	1.954
LEVEL	1.2712	1.604	1.620	2.015	1.797	1.807	1.884	2.117	1.814	1.793	1.808
LEVEL	2.9234	1.798	1.610	2.062	2.060	1.965	1.867	2.014	1.964	1.969	1.994
LEVEL	4.2186	1.706	1.634	2.144	1.855	2.065	1.893	2.661	2.013	1.745	2.155
LEVEL	9.4512	1.675	1.764	2.156	2.156	2.177	2.103	4.020	2.307	2.183	2.155
LEVEL	13.0660	1.766	1.731	2.200	2.425	2.218	2.406	2.333	2.190	2.089	2.240
LEVEL	19.2944	1.708	1.770	2.705	2.402	2.533	2.245	3.315	2.192	2.293	2.451
LEVEL	26.1490	1.725	1.892	2.757	2.709	2.587	2.667	2.547	2.362	2.436	2.618
LEVEL	39.4152	1.682	1.789	3.163	3.374	3.173	2.936	3.161	3.020	2.876	2.970
LEVEL	49.7080	1.811	1.773	3.264	3.296	3.226	2.976	5.174	3.084	3.300	3.376
LEVEL	60.3326	1.608	1.821	3.567	3.260	3.441	3.391	3.566	3.345	3.377	3.386
LEVEL	80.4114	1.829	1.897	3.579	3.859	3.781	3.498	4.057	3.632	3.657	3.903
LEVEL	90.1826	1.747	1.787	3.897	3.890	3.985	3.727	3.996	4.060	3.769	3.668

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	1.683	1.763	4.822	4.111	4.800	4.330	4.519	4.652	4.616	4.754
LEVEL	0.7732	1.852	1.757	4.786	4.581	4.556	4.741	4.565	4.856	4.322	4.762
LEVEL	1.2712	1.896	1.826	4.349	4.234	4.443	5.121	4.693	4.941	4.694	4.329
LEVEL	2.9234	1.780	1.800	4.700	4.514	4.435	4.665	4.967	4.687	4.433	4.463
LEVEL	4.2186	2.082	1.888	4.972	4.371	4.669	4.668	4.841	4.594	4.658	4.663
LEVEL	9.4512	2.043	2.131	4.714	4.529	4.465	4.612	4.834	4.797	4.811	4.679
LEVEL	13.0666	2.107	2.032	4.485	4.388	4.714	4.817	4.593	4.647	4.464	4.439
LEVEL	19.2944	2.114	2.449	4.834	4.511	4.676	4.993	4.914	5.053	4.543	4.527
LEVEL	26.1490	2.656	2.492	4.747	4.594	5.030	5.207	4.881	5.055	4.918	5.171
LEVEL	39.4152	2.645	2.753	5.090	5.178	5.122	4.849	4.893	5.214	4.811	5.151
LEVEL	49.7080	2.926	2.966	5.126	5.258	5.158	5.390	5.442	5.410	5.245	4.721
LEVEL	60.3326	3.238	3.612	5.191	5.199	4.687	5.446	5.484	5.831	5.148	4.516
LEVEL	80.4114	3.849	3.731	5.632	5.364	5.625	5.688	5.113	6.024	6.192	5.588
LEVEL	90.1826	3.741	3.780	3.306	5.511	6.159	5.884	5.723	5.523	6.229	6.020

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	4.515	4.555	4.377	4.031
LEVEL	0.7732	4.983	4.716	4.366	4.324
LEVEL	1.2712	4.792	4.072	4.066	4.276
LEVEL	2.9234	4.565	4.548	4.105	4.245
LEVEL	4.2186	4.719	4.470	4.085	4.018
LEVEL	9.4512	4.589	4.650	4.197	3.986
LEVEL	13.0666	5.235	4.826	4.110	3.932
LEVEL	19.2944	4.598	4.229	4.029	3.710
LEVEL	26.1490	4.744	4.829	4.243	3.810
LEVEL	39.4152	5.376	4.605	4.421	3.953
LEVEL	49.7080	5.800	5.210	4.637	3.936
LEVEL	60.3326	4.809	5.484	4.011	4.089
LEVEL	80.4114	5.884	6.026	4.289	4.277
LEVEL	90.1826	6.007	5.667	4.098	4.196

TAPE: FA30

FILE: 15

CHIP: 3453-11-1

DIRECTION: F

TDI-2

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	541.590	483.473	566.160	567.492	587.805	553.145	564.613	522.629	538.281	536.434
LEVEL	0.2652	541.750	484.051	576.504	577.582	569.047	563.777	583.191	532.094	548.500	546.508
LEVEL	0.5064	541.637	484.105	585.789	586.285	577.539	571.301	575.477	541.906	557.187	555.184
LEVEL	1.1646	542.262	485.023	611.422	612.785	604.398	597.875	610.562	567.352	581.828	581.535
LEVEL	1.6806	542.828	485.602	631.824	633.711	624.941	616.605	620.215	586.855	600.953	599.246
LEVEL	3.7654	544.988	489.312	713.047	714.738	704.949	697.043	702.953	667.512	679.074	674.848
LEVEL	5.2058	546.062	492.211	767.961	770.914	769.738	752.570	763.137	720.785	733.031	726.336
LEVEL	7.6870	548.805	497.559	864.422	869.055	865.223	849.684	863.383	814.953	827.707	817.246
LEVEL	10.4772	550.367	502.246	971.469	977.801	963.203	957.379	971.898	921.051	935.324	922.551
LEVEL	15.7032	552.184	509.133	1170.883	1180.187	1164.242	1157.484	1167.500	1121.816	1135.379	1116.863
LEVEL	19.8040	553.293	512.906	1326.848	1338.316	1323.926	1313.301	1326.832	1277.023	1291.215	1268.605
LEVEL	24.0368	554.516	516.043	1489.551	1503.500	1490.520	1475.527	1492.922	1439.664	1454.391	1429.309
LEVEL	32.2002	556.180	520.531	1802.734	1817.367	1805.477	1787.973	1804.508	1751.910	1765.891	1741.265
LEVEL	35.9292	556.668	521.336	1942.645	1958.453	1945.297	1928.352	1945.148	1893.805	1904.836	1877.1754

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	515.832	518.027	1485.957	1557.684	1557.527	1592.918	1611.652	1608.199	1580.684	1557.484
LEVEL	0.2652	526.383	528.004	1499.746	1569.137	1569.367	1605.070	1622.477	1620.039	1593.148	1570.984
LEVEL	0.5064	535.922	536.180	1513.348	1579.328	1583.090	1616.945	1636.172	1632.270	1604.734	1582.254
LEVEL	1.1646	561.992	560.309	1547.164	1612.344	1613.641	1647.187	1666.367	1664.391	1634.609	1612.363
LEVEL	1.6806	581.965	578.531	1574.270	1632.273	1627.430	1670.684	1690.391	1688.102	1660.215	1638.066
LEVEL	3.7654	661.016	653.871	1682.789	1732.254	1732.895	1765.766	1784.863	1782.090	1753.730	1732.133
LEVEL	5.2058	715.184	705.125	1756.367	1799.449	1796.535	1829.410	1849.055	1845.187	1816.836	1797.254
LEVEL	7.6870	804.715	794.531	1883.820	1914.559	1909.461	1940.734	1956.777	1955.359	1927.746	1910.672
LEVEL	10.4772	900.090	894.598	2027.000	2039.480	2036.609	2061.234	2075.590	2076.617	2054.230	2040.266
LEVEL	15.7032	1087.344	1080.516	2290.828	2274.406	2269.500	2283.508	2302.734	2311.738	2292.508	2275.641
LEVEL	19.8040	1237.699	1226.336	2498.262	2460.191	2451.098	2456.387	2485.465	2496.285	2477.691	2460.949
LEVEL	24.0368	1395.344	1378.496	2713.168	2647.754	2641.887	2636.805	2677.914	2687.227	2670.762	2652.391
LEVEL	32.2002	1698.402	1670.227	3124.098	3016.215	3004.922	2988.109	3049.160	3054.223	3039.137	3018.789
LEVEL	35.9292	1835.137	1800.453	3309.227	3172.160	3166.031	3146.430	3215.102	3218.437	3202.652	3180.176

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1551.875	1499.980	1370.613	1428.715
LEVEL	0.2652	1564.203	1512.625	1371.230	1429.211
LEVEL	0.5064	1575.938	1525.234	1372.262	1430.508
LEVEL	1.1646	1606.633	1554.629	1372.793	1430.977
LEVEL	1.6806	1629.973	1579.469	1374.746	1432.434
LEVEL	3.7654	1728.355	1676.523	1377.609	1434.578
LEVEL	5.2058	1794.637	1741.273	1381.148	1436.898
LEVEL	7.6870	1904.590	1851.848	1386.566	1439.238
LEVEL	10.4772	2032.418	1976.102	1392.687	1441.977
LEVEL	15.7032	2259.262	2207.449	1403.117	1445.398
LEVEL	19.8040	2441.801	2391.609	1408.687	1447.402
LEVEL	24.0368	2630.535	2580.797	1412.137	1449.016
LEVEL	32.2002	2992.820	2945.938	1415.547	1450.461
LEVEL	35.9292	3154.176	3109.207	1417.770	1451.648

DEVIATION FROM STRAIGHT LINE FIT

		6	5	16	15
LEVEL	0.2652	-8.39	+0.66	+1.01	+0.05
LEVEL	0.5064	+7.59	+0.05	-1.92	-1.38
LEVEL	1.1646	-1.20	-0.28	-2.74	-4.00
LEVEL	1.6806	+8.97	-0.09	-3.74	-4.58
LEVEL	3.7654	+6.34	-1.18	-5.17	-5.14
LEVEL	5.2058	+1.50	+0.52	-5.08	-3.68
LEVEL	7.6870	-3.41	+1.04	-2.07	-2.65
LEVEL	10.4772	-4.71	+1.42	+3.64	+1.14
LEVEL	15.7032	+0.49	+0.10	+9.72	+0.23
LEVEL	19.8040	-1.28	+1.39	+10.00	-9.53
LEVEL	24.0368	-4.72	+0.29	+6.45	-1.77
LEVEL	32.2002	-2.64	-0.42	-0.48	-2.91

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	1.806	1.664	2.213	2.043	1.990	2.027	2.590	1.874	1.928	1.863
LEVEL	0.2652	1.659	1.664	1.870	2.111	1.940	1.850	2.252	1.952	1.899	1.958
LEVEL	0.5064	1.759	1.657	1.919	2.010	2.189	1.864	2.497	1.988	2.095	1.945
LEVEL	1.1646	1.691	1.851	2.109	2.072	2.048	2.153	2.028	2.047	2.002	2.000
LEVEL	1.6806	1.660	1.625	2.084	2.170	2.144	1.995	2.344	2.116	1.884	1.863
LEVEL	3.7654	1.712	1.810	2.130	2.221	2.308	2.020	4.102	2.151	2.169	2.061
LEVEL	5.2058	1.725	1.681	2.136	2.088	2.326	2.216	2.569	2.390	2.151	2.152
LEVEL	7.6870	1.783	1.772	2.241	2.436	2.892	2.247	2.532	2.435	2.250	2.346
LEVEL	10.4772	1.764	1.764	2.514	2.623	2.643	2.536	2.606	2.430	2.514	2.463
LEVEL	15.7032	1.731	1.739	3.077	2.992	2.712	2.648	3.015	2.776	2.559	2.973
LEVEL	19.8040	1.548	1.771	3.190	2.987	3.234	3.094	3.851	2.810	3.079	2.987
LEVEL	24.0368	1.767	1.761	3.254	3.503	2.969	3.089	3.618	3.400	2.968	3.182
LEVEL	32.2002	1.764	1.847	3.527	3.408	3.301	3.468	4.844	3.519	3.375	3.335
LEVEL	35.9292	1.801	1.799	3.573	3.661	3.508	3.831	4.998	3.419	3.814	3.589

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	1.889	1.863	4.808	4.707	4.435	4.782	4.947	5.186	4.923	4.958
LEVEL	0.2652	1.807	1.865	5.054	5.194	4.705	5.058	4.907	5.035	5.095	5.201
LEVEL	0.5064	1.776	1.840	5.094	4.804	4.843	4.915	4.968	5.002	4.898	4.893
LEVEL	1.1646	1.853	1.738	5.037	5.173	5.063	5.207	5.061	5.170	4.741	4.822
LEVEL	1.6806	1.841	2.025	5.205	4.987	5.301	4.785	4.995	5.366	5.207	4.972
LEVEL	3.7654	2.000	2.215	4.903	4.985	5.273	4.873	5.153	4.851	5.181	5.075
LEVEL	5.2058	2.120	2.088	5.176	5.113	5.160	5.189	5.375	4.921	4.946	5.160
LEVEL	7.6870	2.191	2.363	5.257	4.900	5.048	5.117	4.920	5.106	5.029	5.276
LEVEL	10.4772	2.314	2.451	5.153	5.114	4.875	5.203	4.917	5.075	5.143	4.891
LEVEL	15.7032	2.448	2.819	5.408	4.712	5.043	5.413	5.291	5.593	5.403	4.786
LEVEL	19.8040	2.857	3.001	5.356	4.780	5.477	5.303	6.040	5.354	5.638	5.184
LEVEL	24.0368	3.019	3.129	5.123	4.990	5.745	4.958	5.815	5.693	5.828	5.554
LEVEL	32.2002	3.194	3.380	5.713	5.350	6.181	5.288	5.590	6.029	5.334	5.346
LEVEL	35.9292	3.064	3.267	5.831	5.221	5.730	6.003	6.098	5.994	5.565	6.000

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	12	11	2A	2B
LEVEL 0.0000	4.903	4.756	4.542	4.298
LEVEL 0.2652	4.616	4.847	4.337	4.149
LEVEL 0.5064	5.125	4.653	4.625	4.359
LEVEL 1.1646	4.747	4.767	4.493	4.594
LEVEL 1.6806	5.016	4.878	4.733	4.499
LEVEL 3.7654	4.983	4.622	4.269	4.402
LEVEL 5.2058	5.268	4.867	4.480	4.460
LEVEL 7.6870	5.025	4.672	4.318	4.481
LEVEL 10.4772	5.002	5.001	4.515	4.625
LEVEL 15.7032	5.150	4.791	4.274	4.490
LEVEL 19.8040	5.354	4.926	4.567	4.528
LEVEL 24.0368	5.393	5.293	4.294	4.471
LEVEL 32.2002	5.729	5.335	4.417	4.466
LEVEL 35.9292	5.821	5.734	4.159	4.726

TAPE: FA30

FILE: 13

CHIP: 3453-11-1

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	294.430	262.629	321.234	323.160	317.828	309.629	317.746	295.105	323.312	315.328
LEVEL	0.2652	294.562	262.777	329.629	331.344	325.344	317.426	325.937	303.492	331.180	322.668
LEVEL	0.5064	294.766	263.059	336.738	338.555	332.246	324.672	338.367	310.961	338.496	329.625
LEVEL	1.1646	295.262	263.930	356.938	359.004	352.703	344.617	355.568	330.848	357.047	348.797
LEVEL	1.6806	295.508	264.461	371.867	374.152	367.520	359.020	376.355	345.379	370.805	363.285
LEVEL	3.7654	296.602	267.270	434.508	437.641	428.293	420.332	438.746	407.027	433.285	421.949
LEVEL	5.2058	297.520	269.316	477.000	479.430	471.871	464.309	480.184	448.973	473.832	462.656
LEVEL	7.6870	298.320	272.016	550.230	554.195	545.699	537.750	548.727	522.195	547.668	535.086
LEVEL	10.4772	298.969	274.641	633.418	637.586	629.371	620.223	635.781	605.465	630.172	616.262
LEVEL	15.7032	299.684	277.656	787.191	792.547	783.598	773.793	789.746	759.125	783.859	769.609
LEVEL	19.8040	300.184	279.020	907.059	912.855	904.098	893.508	910.883	878.500	903.664	889.184
LEVEL	24.0368	300.469	280.004	1032.594	1038.078	1029.414	1019.828	1034.609	1003.523	1027.559	1014.184
LEVEL	32.2002	301.094	280.891	1271.469	1277.566	1269.141	1258.734	1273.918	1241.555	1265.535	1252.082
LEVEL	35.9292	301.582	281.207	1377.832	1383.980	1375.398	1364.977	1377.125	1347.313	1371.203	1358.297

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	298.246	294.715	842.527	881.066	881.973	887.148	932.715	897.492	906.168	867.129
LEVEL	0.2652	306.699	302.277	853.418	889.789	894.016	896.934	942.121	907.031	913.574	876.750
LEVEL	0.5064	313.723	309.312	863.234	903.094	904.609	905.609	951.625	915.738	923.848	886.043
LEVEL	1.1646	333.371	328.437	889.711	923.000	927.687	928.906	973.328	938.320	943.410	910.082
LEVEL	1.6806	347.871	342.473	909.574	939.992	944.996	946.324	990.738	956.355	962.059	927.004
LEVEL	3.7654	408.891	401.449	992.410	1014.953	1015.867	1018.617	1055.637	1026.164	1032.313	999.840
LEVEL	5.2058	447.676	441.375	1047.445	1061.289	1062.461	1066.336	1104.395	1074.414	1082.129	1048.359
LEVEL	7.6870	514.965	510.449	1144.590	1148.695	1150.051	1150.328	1188.164	1159.738	1172.180	1135.152
LEVEL	10.4772	592.965	589.168	1253.969	1245.699	1245.555	1242.863	1278.937	1255.707	1268.973	1232.371
LEVEL	15.7032	742.016	734.711	1455.570	1425.000	1426.543	1412.477	1459.672	1435.117	1449.977	1412.086
LEVEL	19.8040	858.340	847.551	1611.375	1563.605	1564.484	1545.813	1600.297	1573.129	1586.668	1549.402
LEVEL	24.0368	981.211	965.969	1776.980	1710.898	1708.195	1689.348	1748.652	1719.582	1736.352	1695.539
LEVEL	32.2002	1216.602	1190.715	2091.207	1991.262	1990.766	1967.309	2030.523	1999.738	2026.855	1976.367
LEVEL	35.9292	1321.320	1291.551	2231.918	2115.758	2115.617	2090.387	2154.742	2123.398	2150.738	2100.120

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	868.613	845.070	764.520	797.598
LEVEL	0.2652	879.707	854.461	765.059	798.078
LEVEL	0.5064	889.406	863.273	765.906	798.641
LEVEL	1.1646	911.793	886.664	766.078	798.930
LEVEL	1.6806	929.203	904.621	766.316	799.230
LEVEL	3.7654	1001.836	976.895	768.465	800.359
LEVEL	5.2058	1050.750	1024.371	770.543	801.266
LEVEL	7.6870	1136.250	1108.289	774.270	802.738
LEVEL	10.4772	1232.371	1203.613	778.156	804.020
LEVEL	15.7032	1410.090	1382.695	781.875	804.875
LEVEL	19.8040	1547.254	1522.398	783.285	805.258
LEVEL	24.0368	1693.957	1667.641	784.176	805.891
LEVEL	32.2002	1973.215	1948.441	784.883	806.625
LEVEL	35.9292	2097.742	2072.090	785.340	807.184

DEVIATION FROM STRAIGHT LINE FIT

		10	9	8	7	6	5	4	3	2	1
LEVEL	0.2652	-0.60	-0.35	+0.29	-0.01	-0.37	-0.62	-0.13	+0.36	-0.90	-0.20
LEVEL	0.5064	-0.61	-0.44	+0.49	-0.17	-5.69	-1.03	-0.41	+0.40	-1.06	-0.55
LEVEL	1.1646	-1.46	-1.46	-0.60	-0.78	-3.58	-1.64	+0.23	+0.34	-1.96	-1.41
LEVEL	1.6806	-1.21	-1.37	-0.22	-0.03	-9.06	-1.06	+1.53	+0.83	-1.77	-1.13
LEVEL	3.7654	-2.54	-3.31	+0.37	-0.10	-9.98	-1.65	-0.14	+2.68	-3.43	-2.26
LEVEL	5.2058	-2.67	-2.57	-0.81	-1.77	-8.94	-1.41	+1.32	+3.79	-1.20	-2.23
LEVEL	7.6870	-2.94	-4.07	-1.60	-2.33	-4.33	-1.97	-0.14	+3.38	+2.17	-2.46
LEVEL	10.4772	-4.07	-5.08	-3.15	-2.85	-9.11	-3.53	-1.26	+3.20	+3.62	-3.77
LEVEL	15.7032	-4.16	-5.75	-3.55	-2.91	-8.99	-4.14	-2.52	+1.56	+3.37	-4.32
LEVEL	19.8040	-3.43	-4.98	-3.34	-2.18	-9.21	-3.42	-2.71	+1.02	+3.82	-3.38
LEVEL	24.0368	-4.49	-5.22	-4.07	-4.17	-8.13	-4.49	-3.14	-1.10	+1.48	-4.37
LEVEL	32.2002	-3.30	-3.69	-3.50	-3.29	-6.74	-3.45	-3.01	-2.03	-1.46	-2.62
		20	19	18	17	16	15	14	13	12	11
LEVEL	0.2652	-0.64	+0.39	-2.94	-0.90	-0.39	-0.49	+1.78	-0.52	-2.02	-0.33
LEVEL	0.5064	-1.12	-4.63	-5.25	-1.50	-1.69	-0.97	-0.14	-1.53	-3.47	-0.91
LEVEL	1.1646	-2.15	-1.91	-5.73	-2.76	-1.00	-1.09	+3.10	-2.98	-3.34	-1.82
LEVEL	1.6806	-2.06	-1.17	-5.32	-2.89	-0.86	-1.52	+2.32	-2.20	-3.10	-2.16
LEVEL	3.7654	-4.27	-4.49	-4.61	-5.37	+4.15	-0.20	+4.29	-3.48	-4.41	-3.23
LEVEL	5.2058	-3.61	-1.33	-1.74	-4.85	+5.38	+0.70	+4.37	-2.56	-4.05	-1.52
LEVEL	7.6870	-4.80	-3.47	-4.14	-5.75	+6.00	+0.04	+0.26	-4.20	-4.67	-0.70
LEVEL	10.4772	-6.28	-4.59	-3.84	-4.84	+10.13	-0.73	+0.12	-5.66	-5.34	-0.74
LEVEL	15.7032	-5.80	-4.30	-5.39	+0.56	+7.14	-1.83	+0.14	-6.02	-4.27	-1.34
LEVEL	19.8040	-3.02	-1.98	-2.53	+4.55	+5.99	+0.08	+5.50	-2.59	-1.15	-1.00
LEVEL	24.0368	-4.94	-3.82	-0.91	+2.77	+1.61	-1.95	+2.44	-3.46	-3.05	-1.69
LEVEL	32.2002	-3.49	-3.65	-3.18	-1.80	-2.61	-3.57	-5.29	-4.12	-3.04	-3.70

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	.976	.924	1.102	1.049	1.135	1.123	1.218	1.099	1.068	1.075
LEVEL	0.2652	.980	.971	1.021	1.017	1.123	1.234	1.416	1.117	1.073	1.170
LEVEL	0.5064	.954	.933	1.130	1.140	.997	1.056	2.238	1.095	1.055	1.044
LEVEL	1.1646	1.016	.968	1.118	1.139	1.137	1.056	1.939	1.057	1.112	1.119
LEVEL	1.6806	.899	.920	1.245	1.160	1.131	1.104	2.962	1.117	1.607	1.152
LEVEL	3.7654	.936	.991	1.161	1.251	1.254	1.082	1.367	1.153	1.769	1.205
LEVEL	5.2058	.954	.981	1.349	1.399	1.183	1.257	1.532	1.209	1.271	1.292
LEVEL	7.6870	.872	.941	1.213	1.364	1.628	1.372	1.757	1.389	1.341	1.323
LEVEL	10.4772	.994	.960	1.521	1.477	1.482	1.582	1.874	1.436	1.480	1.546
LEVEL	15.7032	.965	.945	1.654	1.687	1.666	1.685	2.068	1.706	1.807	1.816
LEVEL	19.8040	.950	.960	1.683	1.795	1.747	1.930	2.076	1.830	1.723	1.688
LEVEL	24.0368	.933	1.008	1.821	1.785	2.100	1.961	2.015	1.806	1.892	1.937
LEVEL	32.2002	1.013	.960	1.948	2.266	2.130	2.261	2.367	1.978	2.217	1.942
LEVEL	35.9292	.934	1.037	2.133	2.070	2.196	2.196	2.437	2.136	2.136	2.285

ALL LEVEL LIST OF
RESP STR DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	.981	1.014	2.415	2.491	2.488	2.486	2.948	2.348	2.990	2.284
LEVEL	0.2652	1.081	.989	2.496	2.483	2.438	2.427	3.344	2.559	2.802	2.516
LEVEL	0.5064	1.076	1.031	2.492	2.517	2.487	2.535	3.383	2.468	2.623	2.501
LEVEL	1.1646	1.032	.992	2.432	2.670	2.416	2.389	3.203	2.386	2.974	2.412
LEVEL	1.6806	1.163	1.036	2.453	2.606	2.675	2.561	2.849	2.635	2.552	2.487
LEVEL	3.7654	1.023	1.116	2.443	2.646	2.582	2.608	3.149	2.252	3.271	2.510
LEVEL	5.2058	1.178	1.117	2.484	2.406	2.625	2.531	3.079	2.611	3.340	2.501
LEVEL	7.6870	1.297	1.150	2.503	2.390	2.819	2.707	3.127	2.634	2.853	2.541
LEVEL	10.4772	1.418	1.366	2.528	2.306	3.021	2.497	3.000	2.949	3.054	2.774
LEVEL	15.7032	1.614	1.597	2.647	2.722	2.712	2.478	3.036	2.860	2.928	2.933
LEVEL	19.8040	1.779	1.741	2.898	2.671	2.705	3.025	3.679	2.866	2.955	2.979
LEVEL	24.0368	1.790	1.845	2.916	3.018	2.813	2.683	3.304	3.020	3.150	2.941
LEVEL	32.2002	2.054	2.103	3.320	3.141	2.986	3.011	3.444	3.060	3.370	3.221
LEVEL	35.9292	2.165	1.984	3.092	3.147	3.212	2.896	3.328	3.234	3.134	3.173

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	2.307	2.439	2.202	2.271
LEVEL	0.2652	2.961	2.459	2.214	2.282
LEVEL	0.5064	2.591	2.377	2.216	2.130
LEVEL	1.1646	2.562	2.481	2.250	2.243
LEVEL	1.6806	2.231	2.508	2.116	2.245
LEVEL	3.7654	2.479	2.461	2.103	2.206
LEVEL	5.2058	2.502	2.158	1.964	2.330
LEVEL	7.6870	2.525	2.236	2.272	2.271
LEVEL	10.4772	2.539	2.730	2.147	2.290
LEVEL	15.7032	2.619	2.694	2.279	2.116
LEVEL	19.8040	2.721	2.643	2.315	2.259
LEVEL	24.0368	2.877	2.955	2.234	2.192
LEVEL	32.2002	3.209	3.040	2.322	2.371
LEVEL	35.9292	2.844	2.931	2.287	2.279

TAPE: FA30

FILE: 12

CHIP: 3453-11-1

DIRECTION: R

TDI-1

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	526.582	464.484	518.453	516.562	513.371	497.090	498.648	489.016	531.215	528.035
LEVEL 0.7732	526.926	464.637	533.289	531.215	527.156	511.789	512.902	503.629	546.762	542.914
LEVEL 1.2712	526.930	464.793	546.492	544.309	540.996	524.824	525.074	516.648	559.961	556.574
LEVEL 2.9234	527.590	465.582	583.773	580.285	578.754	561.758	562.914	553.242	596.906	592.109
LEVEL 4.2186	527.586	465.320	611.215	606.496	605.980	589.016	590.430	580.266	624.176	620.949
LEVEL 9.4512	528.711	466.398	725.930	719.984	718.735	703.555	705.395	694.562	737.059	734.602
LEVEL 13.0666	529.512	466.891	804.113	797.008	794.629	781.215	783.625	771.316	814.301	812.016
LEVEL 19.2944	530.652	468.020	939.402	931.273	930.500	917.148	919.723	906.234	948.848	947.031
LEVEL 26.1490	532.277	469.383	1092.617	1083.109	1081.984	1069.977	1073.570	1058.227	1100.551	1098.687
LEVEL 39.4152	534.840	471.465	1376.711	1364.574	1362.789	1353.934	1358.457	1341.066	1385.398	1381.496
LEVEL 49.7080	536.875	473.195	1598.563	1586.316	1584.500	1576.582	1581.949	1562.820	1602.281	1603.207
LEVEL 60.3326	538.805	474.711	1828.988	1814.871	1814.816	1806.461	1812.191	1791.672	1830.906	1832.141
LEVEL 80.4114	542.836	477.941	2268.848	2253.633	2252.922	2247.250	2254.234	2230.996	2269.215	2271.016
LEVEL 90.1826	544.715	479.406	2466.082	2450.023	2450.559	2443.977	2451.117	2427.059	2464.406	2466.820

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	511.223	507.520	1678.363	1729.824	1739.750	1721.805	1785.109	1701.387	1726.859	1655.516
LEVEL	0.7732	525.562	523.195	1695.816	1746.516	1750.809	1737.883	1795.863	1717.008	1744.254	1671.363
LEVEL	1.2712	538.836	536.082	1713.645	1760.137	1766.000	1752.457	1820.055	1731.703	1759.832	1685.934
LEVEL	2.9234	575.613	571.953	1758.688	1799.008	1811.398	1793.879	1862.070	1771.910	1799.184	1726.762
LEVEL	4.2186	601.594	598.414	1793.738	1834.590	1840.309	1824.508	1889.062	1802.340	1825.957	1757.187
LEVEL	9.4512	713.598	708.160	1936.891	1960.164	1970.027	1954.328	2012.568	1929.727	1956.574	1884.129
LEVEL	13.0666	791.234	782.375	2033.410	2047.137	2053.707	2042.164	2091.539	2016.035	2048.758	1971.242
LEVEL	19.2944	925.184	912.723	2199.227	2196.902	2201.031	2193.020	2236.055	2164.426	2194.336	2119.770
LEVEL	26.1490	1076.336	1058.684	2388.437	2368.082	2365.211	2364.031	2401.578	2334.086	2361.082	2289.949
LEVEL	39.4152	1358.090	1330.449	2739.805	2682.762	2682.199	2682.070	2705.629	2647.707	2677.156	2604.824
LEVEL	49.7080	1579.027	1544.187	3016.512	2929.891	2927.187	2931.437	2949.980	2895.641	2930.582	2852.223
LEVEL	60.3326	1807.098	1764.445	3302.590	3187.859	3183.523	3188.590	3201.203	3150.227	3187.020	3107.687
LEVEL	80.4114	2245.500	2186.906	3849.777	3681.074	3675.523	3686.172	3694.098	3643.988	3676.816	3601.852
LEVEL	90.1826	2442.305	2374.937	4045.895	3899.906	3896.398	3908.160	3910.691	3866.320	3899.105	3824.164

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1656.520	1653.516	1595.922	1661.520
LEVEL	0.7732	1672.246	1668.926	1595.227	1661.113
LEVEL	1.2712	1687.020	1683.398	1595.285	1660.738
LEVEL	2.9234	1728.328	1723.652	1595.434	1661.340
LEVEL	4.2186	1759.547	1754.555	1595.648	1661.301
LEVEL	9.4512	1888.488	1881.988	1596.762	1662.449
LEVEL	13.0666	1975.762	1968.953	1597.145	1663.027
LEVEL	19.2944	2126.754	2117.988	1598.449	1664.234
LEVEL	26.1490	2297.590	2288.344	1600.047	1666.578
LEVEL	39.4152	2613.906	2603.801	1603.043	1669.324
LEVEL	49.7080	2863.508	2851.688	1605.035	1671.934
LEVEL	60.3326	3120.203	3106.812	1606.879	1674.465
LEVEL	80.4114	3617.715	3602.000	1611.668	1679.758
LEVEL	90.1826	3840.824	3824.430	1613.207	1681.945

DEVIATION FROM STRAIGHT LINE FIT

		6	5	16	15
LEVEL	0.7732	+0.15	-0.31	+4.93	+0.35
LEVEL	1.2712	+0.09	-0.32	-4.98	+0.18
LEVEL	2.9234	-0.97	-1.40	-8.06	-0.38
LEVEL	4.2186	-0.45	-0.59	-4.52	+0.27
LEVEL	9.4512	-2.13	-2.44	-4.80	-1.56
LEVEL	13.0666	-2.08	-1.50	+1.55	-1.11
LEVEL	19.2944	-3.35	-2.58	+3.82	-0.07
LEVEL	26.1490	-5.56	-4.06	+3.37	-1.68
LEVEL	39.4152	-6.46	-5.01	+8.49	-0.55
LEVEL	49.7080	-1.51	-5.57	+6.73	-1.51
LEVEL	60.3326	-7.33	-6.10	+5.93	-1.16
LEVEL	80.4114	-5.76	-5.08	-4.01	-3.26

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	1.431	1.482	1.541	1.578	1.742	1.565	1.550	1.471	1.899	1.679
LEVEL 0.7732	1.546	1.451	1.727	1.543	1.692	1.418	1.509	1.601	1.679	1.549
LEVEL 1.2712	1.396	1.490	1.564	1.636	1.833	1.656	1.594	1.657	1.812	1.688
LEVEL 2.9234	1.400	1.537	1.781	1.692	1.710	1.772	1.628	1.566	1.764	1.869
LEVEL 4.2186	1.508	1.447	1.923	1.782	1.961	1.821	1.852	1.529	1.767	1.847
LEVEL 9.4512	1.393	1.388	1.965	2.058	2.179	2.050	1.925	2.047	2.025	1.923
LEVEL 13.0666	1.358	1.483	2.147	2.218	2.185	2.190	2.037	2.130	2.330	2.350
LEVEL 19.2944	1.363	1.502	2.323	2.300	2.306	2.186	2.425	2.233	2.255	2.326
LEVEL 26.1490	1.310	1.547	2.502	2.521	2.927	2.674	2.663	2.312	2.790	2.506
LEVEL 39.4152	1.490	1.400	3.143	2.863	3.027	3.088	3.158	2.977	3.099	2.991
LEVEL 49.7080	1.450	1.577	3.665	3.287	3.331	3.196	3.444	3.061	3.430	3.115
LEVEL 60.3326	1.503	1.384	3.604	3.268	3.678	3.543	3.582	3.380	3.233	3.563
LEVEL 80.4114	1.391	1.455	3.764	4.167	4.082	3.604	4.004	3.926	4.108	4.090
LEVEL 90.1826	1.455	1.696	4.327	4.124	4.175	4.248	4.009	4.217	4.348	3.906

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	1.437	1.577	3.387	3.330	3.373	3.457	4.582	3.140	3.426	3.268
LEVEL	0.7732	1.937	1.562	3.364	3.506	3.283	3.363	4.503	3.232	3.810	3.116
LEVEL	1.2712	1.707	1.518	3.356	3.422	3.556	3.410	4.252	3.300	3.704	3.364
LEVEL	2.9234	1.646	1.795	3.276	3.483	3.785	3.508	4.412	3.239	5.624	3.369
LEVEL	4.2186	1.887	1.717	3.440	3.449	3.660	3.399	5.040	3.221	4.717	3.357
LEVEL	9.4512	2.125	1.879	3.550	3.521	4.113	3.345	5.834	3.599	5.002	3.639
LEVEL	13.0666	2.140	2.069	3.615	3.167	3.558	3.431	5.105	4.097	3.148	3.646
LEVEL	19.2944	2.315	2.287	3.777	3.866	4.506	4.324	4.824	3.805	4.253	3.435
LEVEL	26.1490	2.558	2.758	3.958	4.176	4.159	4.075	4.879	4.218	4.737	4.175
LEVEL	39.4152	3.013	2.824	4.685	4.178	4.221	4.253	4.988	4.346	7.426	4.116
LEVEL	49.7080	3.278	3.080	4.876	4.975	4.761	4.649	5.217	4.924	5.033	4.764
LEVEL	60.3326	3.528	3.499	4.983	5.135	4.823	4.843	5.858	4.841	6.070	4.902
LEVEL	80.4114	4.033	3.843	5.797	5.440	5.214	5.002	5.703	4.814	5.725	4.617
LEVEL	90.1826	3.868	3.534	3.093	5.216	5.454	5.115	5.599	5.322	5.305	5.115

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	3.496	3.014	3.303	3.168
LEVEL	0.7732	3.093	3.199	3.333	3.293
LEVEL	1.2712	3.115	3.122	3.145	3.161
LEVEL	2.9234	3.552	3.261	3.052	3.281
LEVEL	4.2186	3.272	3.378	3.069	3.151
LEVEL	9.4512	3.858	3.547	3.255	3.095
LEVEL	13.0666	3.546	3.582	3.211	3.065
LEVEL	19.2944	4.226	3.886	3.256	3.087
LEVEL	26.1490	4.209	4.445	3.048	2.993
LEVEL	39.4152	4.038	4.013	3.035	3.114
LEVEL	49.7080	4.234	4.637	3.173	3.216
LEVEL	60.3326	4.981	4.955	3.220	3.115
LEVEL	80.4114	5.040	5.160	3.344	3.386
LEVEL	90.1826	5.428	5.696	3.084	3.081

TAPE: FA30

FILE: 16

CHIP: 3453-11-1

DIRECTION: R

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ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	517.770	456.555	521.801	532.555	545.227	524.949	501.445	490.496	562.738	533.066
LEVEL	0.2652	517.867	456.480	533.324	543.934	555.816	536.727	511.320	501.414	575.488	542.906
LEVEL	0.5064	517.887	456.652	542.949	553.504	567.344	544.973	520.547	511.273	581.332	553.578
LEVEL	1.1646	518.066	456.789	570.715	580.367	594.812	572.742	547.742	537.883	609.934	581.348
LEVEL	1.6806	518.215	456.816	592.465	601.676	617.008	593.723	567.816	558.570	631.121	600.473
LEVEL	3.7654	518.398	456.996	677.980	687.078	698.973	679.875	652.387	643.465	715.574	687.164
LEVEL	5.2058	518.754	457.074	736.535	745.316	758.230	736.738	710.523	700.816	771.832	745.508
LEVEL	7.6870	519.199	457.309	837.746	845.273	861.984	838.176	812.074	801.598	873.664	848.191
LEVEL	10.4772	519.992	457.742	952.648	960.246	976.949	953.410	925.105	915.172	986.352	963.680
LEVEL	15.7032	520.656	458.016	1165.969	1172.633	1190.059	1165.531	1136.684	1127.434	1197.102	1177.063
LEVEL	19.8040	521.375	458.273	1332.785	1338.828	1355.742	1332.043	1302.793	1293.188	1365.207	1345.266
LEVEL	24.0368	522.020	458.438	1506.234	1513.027	1530.641	1505.512	1475.027	1466.254	1537.395	1519.254
LEVEL	32.2002	523.527	458.867	1839.258	1844.148	1863.340	1836.254	1808.332	1797.133	1866.277	1853.027
LEVEL	35.9292	524.254	459.098	1988.988	1994.637	2012.445	1986.012	1957.246	1945.629	2014.490	2001.816

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	510.852	520.082	1684.633	1811.711	1766.617	1734.500	1780.117	1713.016	1752.184	1683.191
LEVEL	0.2652	521.918	531.129	1696.945	1825.848	1772.980	1746.887	1795.348	1725.371	1762.480	1694.191
LEVEL	0.5064	532.227	540.355	1709.191	1838.297	1783.652	1757.559	1805.285	1736.387	1803.977	1705.031
LEVEL	1.1646	560.027	566.141	1743.113	1869.488	1813.723	1788.461	1837.805	1767.207	1833.266	1736.414
LEVEL	1.6806	579.996	585.746	1768.359	1894.215	1833.957	1811.063	1860.691	1789.672	1832.836	1759.074
LEVEL	3.7654	664.980	666.844	1873.254	1992.160	1928.988	1907.168	1954.457	1885.625	1963.949	1853.773
LEVEL	5.2058	722.801	721.930	1944.766	2051.328	1992.211	1972.598	2027.340	1951.418	2014.957	1918.559
LEVEL	7.6870	822.324	818.289	2067.805	2165.094	2105.422	2084.312	2132.984	2062.547	2119.891	2031.520
LEVEL	10.4772	937.746	926.906	2208.602	2295.145	2229.805	2212.059	2259.379	2190.484	2251.695	2156.988
LEVEL	15.7032	1149.195	1128.676	2467.262	2526.191	2468.641	2448.867	2495.965	2427.234	2494.801	2393.195
LEVEL	19.8040	1315.063	1287.875	2667.977	2713.297	2649.121	2633.395	2679.293	2610.828	2676.613	2577.164
LEVEL	24.0368	1487.969	1452.469	2879.937	2903.129	2840.363	2827.609	2868.707	2803.547	2866.203	2770.578
LEVEL	32.2002	1818.652	1769.133	3285.734	3277.828	3210.926	3197.094	3247.898	3172.609	3204.109	3139.715
LEVEL	35.9292	1967.367	1910.156	3467.488	3449.555	3378.523	3363.555	3416.480	3340.395	3367.020	3304.645

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1666.137	1650.363	1587.008	1651.738
LEVEL	0.2652	1678.641	1662.113	1586.996	1651.262
LEVEL	0.5064	1688.715	1673.211	1586.891	1651.559
LEVEL	1.1646	1719.871	1704.180	1586.953	1651.551
LEVEL	1.6806	1742.297	1726.383	1586.539	1651.492
LEVEL	3.7654	1837.910	1821.746	1586.633	1651.723
LEVEL	5.2058	1904.426	1887.434	1586.414	1651.785
LEVEL	7.6870	2018.277	2000.402	1586.852	1652.598
LEVEL	10.4772	2144.418	2126.293	1587.203	1652.637
LEVEL	15.7032	2380.992	2363.250	1587.414	1653.949
LEVEL	19.8040	2567.445	2548.891	1588.246	1654.965
LEVEL	24.0368	2760.590	2741.035	1588.133	1655.652
LEVEL	32.2002	3131.375	3110.875	1588.371	1657.555
LEVEL	35.9292	3298.137	3277.098	1588.480	1658.113

DEVIATION FROM STRAIGHT LINE FIT

		6	5	16	15
LEVEL	0.2652	+0.87	-0.18	-1.15	-0.34
LEVEL	0.5064	+1.42	-0.27	-2.11	-0.43
LEVEL	1.1646	+0.89	-0.22	-4.65	-1.44
LEVEL	1.6806	-1.72	-1.02	-4.03	-0.54
LEVEL	3.7654	+1.63	-0.47	-2.85	-2.06
LEVEL	5.2058	+1.85	+0.52	-10.13	-2.61
LEVEL	7.6870	+0.84	+0.22	-2.77	-1.35
LEVEL	10.4772	+0.86	-0.35	-2.09	-2.91
LEVEL	15.7032	+1.03	-0.96	-0.66	-2.96
LEVEL	19.8040	+1.08	-0.63	+2.78	-0.81
LEVEL	24.0368	-0.64	-2.27	+6.15	-1.81
LEVEL	32.2002	-2.18	-2.53	-1.25	-1.12

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	1.492	1.454	1.745	1.768	1.825	1.749	1.566	1.652	1.788	1.599
LEVEL	0.2652	1.446	1.531	1.690	1.753	1.802	1.663	1.518	1.455	1.856	1.581
LEVEL	0.5064	1.489	1.526	1.736	1.692	2.058	1.646	1.677	1.475	1.937	1.754
LEVEL	1.1646	1.546	1.464	1.736	1.714	1.933	1.761	1.637	1.679	2.568	1.899
LEVEL	1.6806	1.535	1.256	1.862	1.798	2.321	1.784	1.660	1.734	2.108	1.930
LEVEL	3.7654	1.362	1.421	1.991	1.896	2.089	2.039	1.816	2.099	2.352	2.095
LEVEL	5.2058	1.416	1.455	2.235	2.103	2.040	2.078	1.932	1.906	2.769	2.267
LEVEL	7.6870	1.437	1.373	2.267	2.204	2.328	2.382	2.178	2.140	2.922	2.427
LEVEL	10.4772	1.439	1.486	2.350	2.479	2.736	2.407	2.298	2.688	2.767	2.592
LEVEL	15.7032	1.380	1.439	2.791	2.562	3.060	2.683	2.792	2.733	3.262	2.934
LEVEL	19.8040	1.469	1.456	3.178	2.939	3.129	3.091	2.898	2.595	3.271	3.231
LEVEL	24.0368	1.558	1.496	3.466	3.507	3.434	3.130	3.331	3.345	3.427	3.361
LEVEL	32.2002	1.422	1.473	3.566	3.529	3.870	3.678	3.449	3.805	3.753	3.738
LEVEL	35.9292	1.381	1.398	3.632	3.950	4.064	3.483	3.843	3.807	4.332	3.902

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	1.580	1.573	3.260	3.686	6.037	3.516	4.209	3.210	3.353	3.278
LEVEL	0.2652	1.615	1.580	3.270	3.804	3.774	3.396	4.001	3.268	3.609	3.303
LEVEL	0.5064	1.688	1.555	3.342	3.915	3.496	3.404	3.330	3.404	5.223	3.318
LEVEL	1.1646	1.777	1.686	3.250	3.705	5.229	3.351	4.343	3.423	6.902	3.353
LEVEL	1.6806	1.865	1.787	3.191	4.243	3.291	3.292	4.503	3.524	5.745	3.069
LEVEL	3.7654	1.947	1.984	3.599	3.951	3.856	3.794	4.296	3.561	7.752	3.369
LEVEL	5.2058	2.066	2.007	3.779	3.427	3.451	3.440	3.952	3.606	4.005	3.897
LEVEL	7.6870	2.270	2.188	3.829	4.894	3.807	3.785	4.701	3.882	5.943	3.940
LEVEL	10.4772	2.598	2.615	3.778	4.504	4.486	3.907	5.099	4.024	15.267	3.980
LEVEL	15.7032	2.724	2.775	3.975	4.378	5.145	4.100	4.849	4.153	4.524	4.015
LEVEL	19.8040	2.925	2.991	4.214	4.970	4.786	4.476	5.576	4.013	6.591	4.640
LEVEL	24.0368	3.203	2.946	4.501	5.254	4.828	4.357	5.433	4.638	5.888	4.533
LEVEL	32.2002	3.508	3.661	4.642	5.410	5.641	4.776	5.788	4.883	4.857	4.673
LEVEL	35.9292	3.974	3.773	5.433	5.188	5.347	4.915	5.703	6.946	5.719	5.905

ALL LEVEL LIST OF
RESP STR DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	3.111	3.138	3.129	3.273
LEVEL	0.2652	3.241	3.219	3.119	3.346
LEVEL	0.5064	3.197	3.243	3.274	2.980
LEVEL	1.1646	3.454	3.365	3.099	3.107
LEVEL	1.6806	3.465	3.301	3.543	2.953
LEVEL	3.7654	3.532	3.582	3.330	3.137
LEVEL	5.2058	3.574	3.607	3.212	3.294
LEVEL	7.6870	3.872	3.827	3.010	3.217
LEVEL	10.4772	3.508	4.135	3.158	3.241
LEVEL	15.7032	3.978	4.146	3.392	3.039
LEVEL	19.8040	4.113	4.696	3.264	3.150
LEVEL	24.0368	4.646	4.757	3.494	2.951
LEVEL	32.2002	4.740	4.807	3.039	3.364
LEVEL	35.9292	5.296	4.987	3.430	3.256

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DIRECTION: R

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	268.535	237.602	280.395	287.414	289.562	279.555	289.066	263.777	296.285	291.590
LEVEL	0.2652	268.488	237.539	288.855	295.184	297.516	288.457	294.156	272.262	305.223	298.293
LEVEL	0.5064	268.656	237.621	296.641	302.648	305.148	296.496	304.441	280.684	312.687	307.234
LEVEL	1.1646	268.750	237.621	317.738	323.734	326.898	317.184	325.270	300.797	333.355	329.195
LEVEL	1.6806	268.809	237.676	333.305	339.723	343.742	333.727	343.465	316.527	352.898	344.762
LEVEL	3.7654	269.012	237.836	399.152	405.676	409.660	399.348	408.449	382.391	418.184	409.719
LEVEL	5.2058	269.105	237.738	443.527	449.719	453.562	443.758	454.552	426.629	460.359	454.191
LEVEL	7.6870	269.398	237.777	521.281	528.219	531.750	522.320	534.156	503.984	537.891	530.676
LEVEL	10.4772	269.762	237.758	609.323	615.695	618.957	610.508	620.668	590.871	624.855	618.758
LEVEL	15.7032	270.156	237.828	772.598	779.633	782.984	773.047	785.020	753.914	787.348	780.535
LEVEL	19.8040	270.711	237.793	900.762	907.766	911.648	901.199	915.637	881.133	914.320	906.117
LEVEL	24.0368	270.961	237.797	1032.406	1040.004	1043.547	1032.602	1048.438	1013.996	1045.672	1038.187
LEVEL	32.2002	271.742	237.809	1284.824	1291.797	1294.758	1284.641	1295.187	1265.062	1296.629	1289.289
LEVEL	35.9292	272.180	237.621	1396.551	1404.340	1406.984	1396.969	1414.441	1376.352	1407.867	1400.594

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	271.773	276.133	899.750	947.020	926.809	916.703	945.656	908.406	924.492	891.062
LEVEL	0.2652	280.629	283.523	909.680	961.172	930.137	925.617	953.133	917.477	935.426	900.152
LEVEL	0.5064	288.211	290.598	919.477	969.352	938.359	934.250	950.949	926.078	955.750	908.449
LEVEL	1.1646	308.641	310.160	945.469	991.207	963.355	957.762	983.805	949.715	979.773	932.055
LEVEL	1.6806	324.898	324.863	965.672	1006.906	979.348	974.453	1002.227	967.395	997.262	950.332
LEVEL	3.7654	390.133	387.082	1047.305	1079.656	1053.336	1047.305	1074.012	1039.645	1075.082	1023.223
LEVEL	5.2058	434.125	428.703	1103.703	1131.859	1102.078	1097.164	1122.289	1089.484	1106.961	1071.816
LEVEL	7.6870	511.727	501.902	1201.895	1217.355	1194.316	1183.937	1211.941	1176.453	1196.152	1158.840
LEVEL	10.4772	597.863	584.414	1311.465	1316.156	1293.039	1280.629	1311.652	1273.602	1294.910	1256.789
LEVEL	15.7032	759.844	738.246	1515.445	1496.719	1474.129	1461.902	1492.230	1455.059	1488.066	1438.414
LEVEL	19.8040	886.133	858.793	1675.145	1637.633	1614.855	1602.934	1632.113	1596.496	1625.133	1579.410
LEVEL	24.0368	1016.879	982.695	1840.617	1786.668	1761.598	1750.418	1778.645	1743.961	1764.805	1727.117
LEVEL	32.2002	1265.824	1220.078	2159.305	2070.578	2047.621	2034.266	2060.859	2028.633	2047.594	2011.910
LEVEL	35.9292	1377.297	1325.941	2303.406	2196.457	2173.406	2159.582	2188.891	2154.453	2175.660	2137.477

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	895.945	879.508	833.160	865.996
LEVEL	0.2652	905.055	888.992	832.871	865.918
LEVEL	0.5064	913.719	897.645	832.781	865.762
LEVEL	1.1646	937.633	920.910	832.750	865.988
LEVEL	1.6806	954.984	938.277	832.766	865.832
LEVEL	3.7654	1028.285	1011.969	833.000	866.156
LEVEL	5.2058	1077.820	1060.723	832.840	866.258
LEVEL	7.6870	1164.660	1147.723	832.797	866.625
LEVEL	10.4772	1261.625	1245.125	832.836	866.820
LEVEL	15.7032	1443.078	1426.734	832.629	867.406
LEVEL	19.8040	1584.398	1568.070	832.516	867.941
LEVEL	24.0368	1732.492	1715.508	832.363	868.266
LEVEL	32.2002	2016.148	2000.641	832.426	868.910
LEVEL	35.9292	2141.543	2125.762	832.484	869.406

DEVIATION FROM STRAIGHT LINE FIT

		6	5	16	-15
LEVEL	0.2652	+3.22	-0.27	+1.70	+0.13
LEVEL	0.5064	+0.49	-1.23	+2.23	-0.11
LEVEL	1.1646	+0.27	-0.96	+2.15	-0.92
LEVEL	1.6806	-1.76	-0.71	+1.58	-0.70
LEVEL	3.7654	-1.44	-2.01	+1.94	-0.65
LEVEL	5.2058	-2.53	-1.65	+3.50	-0.54
LEVEL	7.6870	-4.32	-2.17	-0.30	-1.46
LEVEL	10.4772	-3.43	-2.66	-3.46	-1.84
LEVEL	15.7032	-4.10	-3.88	-3.21	-2.05
LEVEL	19.8040	-6.27	-4.11	-1.19	-1.28
LEVEL	24.0368	-6.49	-5.90	-1.26	-1.94
LEVEL	32.2002	+2.45	-4.18	-1.00	-3.50

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	.796	.810	.870	.890	.972	.884	.970	.983	.938	1.110
LEVEL 0.2652	.831	.862	.911	1.063	.966	.989	.990	.997	1.063	1.268
LEVEL 0.5064	.835	.807	.931	1.037	1.071	.990	1.072	.897	1.222	1.029
LEVEL 1.1646	.821	.827	1.016	1.002	1.032	1.110	1.186	.957	1.364	1.211
LEVEL 1.6806	.796	.881	1.029	1.028	1.086	1.079	1.348	1.084	1.054	1.135
LEVEL 3.7654	.847	.829	1.079	1.172	1.286	1.165	1.492	1.203	1.165	1.224
LEVEL 5.2058	.859	.830	1.208	1.289	1.294	1.241	1.436	1.274	1.494	1.301
LEVEL 7.6870	.871	.864	1.363	1.274	1.471	1.360	2.560	1.289	1.603	1.389
LEVEL 10.4772	.900	.814	1.557	1.562	1.475	1.455	1.565	1.560	1.760	1.504
LEVEL 15.7032	.858	.921	1.637	1.618	1.724	1.628	2.199	1.706	1.713	1.876
LEVEL 19.8040	.851	.881	1.807	1.784	1.959	1.939	2.099	1.882	1.901	1.860
LEVEL 24.0368	.750	.791	2.031	2.017	1.946	1.956	2.097	1.963	2.164	2.266
LEVEL 32.2002	.809	.862	2.138	2.162	2.385	2.236	2.295	2.136	2.069	2.218
LEVEL 35.9292	.830	.882	2.206	2.334	2.336	2.278	2.444	2.265	2.321	2.383

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	.892	.889	1.715	1.904	1.915	1.751	2.351	1.870	2.366	1.876
LEVEL 0.2652	.911	.844	1.836	2.197	1.891	1.805	2.264	1.775	1.822	1.746
LEVEL 0.5064	.930	.885	1.815	1.869	2.211	1.813	2.367	1.805	2.270	1.886
LEVEL 1.1646	.905	1.034	1.962	2.052	1.983	1.881	2.409	1.694	1.979	1.853
LEVEL 1.6806	.977	.942	1.765	2.010	2.029	1.666	2.231	1.867	2.003	1.935
LEVEL 3.7654	1.137	1.190	1.858	2.192	2.123	2.037	2.669	2.113	2.807	1.420
LEVEL 5.2058	1.249	1.226	1.997	2.121	2.232	2.019	2.541	2.138	2.371	2.079
LEVEL 7.6870	1.306	1.250	2.109	2.135	2.104	2.082	2.350	2.048	3.482	2.081
LEVEL 10.4772	1.485	1.372	2.127	2.451	2.314	2.187	2.409	2.233	2.552	2.074
LEVEL 15.7032	1.719	1.751	2.292	2.604	2.650	2.344	2.725	2.553	3.290	2.294
LEVEL 19.8040	1.771	1.821	2.556	2.568	2.783	2.425	2.600	2.587	7.983	2.547
LEVEL 24.0368	2.052	2.033	2.849	2.902	2.557	2.627	3.006	2.842	2.636	2.708
LEVEL 32.2002	2.136	2.236	3.068	3.089	2.456	3.126	3.026	2.686	2.309	3.070
LEVEL 35.9292	2.356	2.202	3.271	3.145	2.791	3.126	3.569	2.738	3.107	3.121

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1.788	1.819	1.626	1.748
LEVEL	0.2652	1.838	1.706	1.655	1.777
LEVEL	0.5064	1.843	1.679	1.726	1.697
LEVEL	1.1646	1.786	1.509	1.544	1.725
LEVEL	1.6806	2.101	1.816	1.584	1.685
LEVEL	3.7654	1.771	1.916	1.547	1.722
LEVEL	5.2058	2.079	1.968	1.669	1.646
LEVEL	7.6870	2.073	2.044	1.603	1.614
LEVEL	10.4772	2.321	2.193	1.558	1.492
LEVEL	15.7032	2.365	2.417	1.613	1.712
LEVEL	19.8040	2.460	2.587	1.666	1.699
LEVEL	24.0368	2.506	2.639	1.689	1.614
LEVEL	32.2002	2.878	2.916	1.741	1.658
LEVEL	35.9292	2.836	3.044	1.845	1.594

TAPE: FA30

FILE: 10

CHIP: 3453-11-1

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	564.613	504.840	613.531	616.789	611.039	592.277	606.684	562.348	625.199	601.055
LEVEL	14.057	566.590	508.926	724.437	728.754	719.430	703.160	714.543	672.285	730.332	707.734
LEVEL	2.957	566.648	509.121	731.570	735.187	729.746	711.234	719.637	680.297	737.082	715.121
LEVEL	3.192	567.332	510.301	755.176	760.309	753.098	734.223	747.367	700.430	760.879	740.051
LEVEL	2.664	567.086	509.918	748.602	751.758	744.230	726.070	743.207	694.258	746.109	731.316
LEVEL	2.761	567.621	510.859	765.922	768.941	761.547	743.895	754.191	710.887	761.496	745.273
LEVEL	2.156	566.652	509.168	735.086	739.258	731.512	714.840	737.977	684.437	733.680	717.332
LEVEL	2.131	567.324	510.051	746.254	750.809	744.191	726.215	739.418	694.766	746.461	729.074
LEVEL	2.119	567.289	510.187	751.625	755.258	745.152	730.273	750.574	699.262	749.453	728.797
LEVEL	1.683	566.973	509.176	732.836	737.398	725.762	715.277	733.359	682.965	734.594	717.254
LEVEL	2.037	568.000	511.430	774.203	778.383	766.590	755.363	766.405	721.824	769.785	754.754
LEVEL	2.285	569.078	512.613	784.578	790.301	778.539	768.473	777.820	734.961	784.039	768.250
LEVEL	2.553	568.695	511.875	770.246	774.992	764.113	752.383	759.816	717.645	768.734	750.883
LEVEL	3.997	569.645	512.965	773.891	779.719	770.102	758.641	766.015	728.867	778.430	766.098
LEVEL	6.473	571.309	514.414	778.820	785.187	775.465	763.258	773.250	731.289	783.715	769.031
LEVEL	16.149	586.953	531.797	846.789	853.926	845.070	831.293	845.483	794.008	842.215	821.832
LEVEL	49.162	611.043	558.660	968.438	978.719	968.332	953.973	968.676	914.109	962.301	944.395

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	567.992	563.816	1605.785	1676.949	1675.488	1696.625	1777.562	1712.203	1732.008	1657.418
LEVEL	14.057	675.371	666.016	1748.355	1808.453	1806.426	1823.484	1903.777	1838.926	1854.137	1786.555
LEVEL	2.957	685.004	673.195	1760.992	1812.094	1810.164	1831.418	1913.848	1845.219	1861.184	1793.270
LEVEL	3.192	707.734	697.828	1792.684	1838.199	1837.086	1858.320	1935.672	1870.418	1917.152	1820.609
LEVEL	2.664	699.137	690.691	1782.410	1830.902	1827.180	1851.852	1929.156	1863.703	1875.891	1813.410
LEVEL	2.761	715.672	707.039	1803.824	1855.738	1849.660	1871.746	1953.957	1884.281	1901.937	1833.879
LEVEL	2.156	688.844	682.062	1767.082	1819.801	1815.098	1836.145	1919.277	1849.203	1889.696	1798.379
LEVEL	2.131	699.406	689.574	1780.691	1833.199	1827.262	1847.699	1927.590	1860.852	1877.676	1808.121
LEVEL	2.119	701.832	695.484	1784.641	1843.023	1837.242	1855.957	1938.508	1868.371	1884.875	1816.875
LEVEL	1.683	689.746	681.246	1761.980	1818.758	1811.781	1833.312	1911.090	1845.832	1862.523	1792.961
LEVEL	2.037	723.480	712.945	1812.504	1865.672	1863.234	1882.172	1961.801	1896.141	1910.617	1842.594
LEVEL	2.285	740.953	730.090	1826.777	1877.094	1873.508	1893.395	1963.430	1907.004	1954.809	1854.699
LEVEL	2.553	718.914	704.535	1801.344	1860.383	1857.902	1877.711	1951.875	1892.023	1908.176	1838.328
LEVEL	3.997	737.844	727.207	1813.801	1867.977	1869.742	1880.891	1957.512	1897.641	1914.055	1841.855
LEVEL	6.473	739.785	734.117	1818.152	1872.234	1876.227	1888.297	1962.437	1905.348	1921.645	1847.266
LEVEL	16.149	787.719	809.949	1904.785	1945.484	1948.246	1963.371	2036.820	1986.266	1993.387	1929.543
LEVEL	49.162	900.875	975.547	2080.809	2068.270	2063.957	2091.223	2161.949	2120.926	2136.824	2065.789

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1655.621	1609.902	1460.340	1523.117
LEVEL	14.057	1784.070	1738.812	1462.469	1524.125
LEVEL	2.957	1790.086	1744.020	1460.816	1522.672
LEVEL	3.192	1816.574	1770.863	1461.887	1523.434
LEVEL	2.664	1809.820	1764.645	1461.934	1523.535
LEVEL	2.761	1829.781	1785.609	1462.773	1524.277
LEVEL	2.156	1794.414	1749.383	1461.496	1523.586
LEVEL	2.131	1805.711	1762.215	1461.816	1523.605
LEVEL	2.119	1812.605	1769.027	1461.684	1523.469
LEVEL	1.683	1791.387	1747.473	1461.477	1523.207
LEVEL	2.037	1839.941	1796.203	1463.570	1524.641
LEVEL	2.285	1851.984	1807.516	1464.703	1525.551
LEVEL	2.553	1835.172	1790.793	1465.352	1526.496
LEVEL	3.997	1837.355	1793.469	1465.844	1526.820
LEVEL	6.473	1841.355	1797.785	1467.324	1528.543
LEVEL	16.149	1921.578	1875.594	1486.871	1546.039
LEVEL	49.162	2060.078	2011.453	1516.629	1572.852

RELATIVE SPECTRAL RESPONSE

		10	9	8	7	6	5	4	3	2	1
WAVELENGTH (μm)	376	.100	.100	.101	.099	.098	.100	.105	.101	.100	.099
	430	.506	.505	.526	.503	.487	.509	.533	.511	.518	.505
	473	.563	.567	.583	.555	.562	.553	.599	.577	.574	.573
	528	.643	.639	.655	.637	.654	.633	.639	.648	.645	.651
	571	.700	.695	.714	.686	.682	.687	.696	.693	.701	.709
	624	.715	.716	.732	.710	.784	.723	.709	.715	.737	.749
	678	.789	.792	.818	.785	.795	.794	.802	.796	.808	.806
	719	.827	.824	.829	.814	.866	.825	.826	.799	.828	.849
	774	.899	.904	.893	.913	.960	.916	.916	.915	.948	.953
	830	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	876	.949	.957	.960	.963	.955	.965	.979	.970	.992	.994
	924	.778	.782	.785	.783	.765	.777	.792	.778	.774	.753
	981	.509	.514	.520	.520	.509	.532	.540	.547	.557	.558
	1019	.324	.328	.333	.330	.328	.333	.345	.344	.348	.359
	1081	.183	.185	.190	.185	.189	.183	.189	.181	.178	.208
	1130	.092	.093	.095	.092	.094	.091	.097	.093	.089	.114

		20	19	18	17	16	15	14	13	12	11
WAVELENGTH (μm)	376	.100	.101	.101	.099	.099	.100	.099	.101	.101	.100
	430	.519	.494	.494	.501	.510	.498	.498	.505	.503	.496
	473	.579	.545	.549	.556	.551	.549	.662	.562	.557	.551
	528	.656	.624	.618	.640	.629	.630	.616	.644	.640	.635
	571	.710	.699	.685	.697	.707	.690	.702	.703	.697	.696
	624	.740	.715	.703	.711	.727	.704	.834	.719	.711	.707
	678	.812	.792	.773	.778	.778	.773	.779	.778	.778	.782
	719	.835	.846	.828	.826	.840	.817	.823	.828	.819	.821
	774	.918	.910	.879	.892	.877	.879	.885	.886	.892	.894
	830	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	876	.957	.946	.940	.946	.899	.944	.892	.950	.950	.945
	924	.758	.775	.775	.779	.755	.780	.787	.780	.777	.775
	981	.515	.516	.527	.506	.498	.514	.520	.508	.503	.502
	1019	.304	.326	.336	.325	.316	.106	.334	.323	.317	.317
	1081	.183	.180	.183	.181	.177	.188	.185	.185	.182	.180
	1130	.095	.086	.086	.088	.086	.092	.094	.091	.091	.089

TAPE: FA30

FILE: 36

CHIP: 3453-11-3

DIRECTION: F

TDI-1

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	481.965	416.066	420.562	408.301	397.582	408.344	428.023	419.219	466.187	434.664
LEVEL	0.7732	487.605	423.387	429.586	415.062	402.707	416.383	444.477	435.723	482.977	452.289
LEVEL	1.2712	490.059	427.141	449.676	420.832	406.672	423.480	458.723	449.625	496.781	466.625
LEVEL	2.9234	491.203	429.449	529.148	455.453	418.234	443.586	497.676	486.355	530.895	503.789
LEVEL	4.2186	492.832	431.316	558.746	507.445	427.742	458.301	526.477	514.117	558.707	531.574
LEVEL	9.4512	495.668	437.445	673.621	654.207	564.539	523.266	649.531	630.676	670.168	644.180
LEVEL	13.0666	497.109	442.609	749.566	733.336	677.586	567.590	730.473	710.895	746.715	719.574
LEVEL	19.2944	499.203	451.645	882.187	868.637	850.195	667.672	867.863	849.797	881.371	850.195
LEVEL	26.1490	500.707	460.656	1033.277	1022.402	1008.590	815.137	1022.246	1005.418	1033.219	999.719
LEVEL	39.4152	502.523	472.031	1318.262	1309.332	1296.535	1094.895	1309.609	1295.742	1320.500	1282.855
LEVEL	49.7080	503.844	479.117	1541.094	1531.871	1518.547	1315.090	1532.793	1520.547	1542.762	1506.590
LEVEL	60.3326	504.410	483.820	1772.723	1764.082	1749.355	1545.707	1763.746	1752.812	1772.098	1738.113
LEVEL	80.4114	506.629	492.477	2215.762	2208.230	2191.699	1989.344	2204.469	2195.254	2212.605	2179.395
LEVEL	90.1826	507.336	495.711	2414.563	2406.578	2390.027	2188.121	2402.332	2393.707	2408.121	2376.141

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	438.066	447.863	1395.094	1332.055	1363.715	1409.641	1411.648	1410.129	1397.492	1374.906
LEVEL	0.7732	455.605	465.937	1398.539	1347.277	1377.867	1423.059	1425.484	1424.137	1412.129	1389.684
LEVEL	1.2712	469.340	480.406	1420.770	1359.250	1390.543	1435.934	1437.707	1436.547	1423.750	1401.809
LEVEL	2.9234	503.984	515.730	1462.277	1399.504	1430.305	1475.215	1475.789	1476.059	1461.520	1441.066
LEVEL	4.2186	529.602	542.613	1492.820	1426.613	1466.492	1500.937	1499.508	1501.691	1486.996	1467.383
LEVEL	9.4512	631.594	652.500	1633.785	1549.270	1578.922	1619.371	1605.480	1624.836	1606.234	1589.875
LEVEL	13.0666	701.273	726.891	1723.793	1631.773	1661.465	1695.012	1679.801	1710.195	1687.910	1674.094
LEVEL	19.2944	825.246	855.172	1870.738	1776.906	1802.410	1824.285	1813.316	1856.465	1831.797	1819.648
LEVEL	26.1490	968.430	996.477	2057.340	1938.797	1955.672	1980.109	1972.613	2020.082	1996.461	1985.645
LEVEL	39.4152	1245.098	1246.996	2383.457	2225.281	2226.902	2291.012	2275.687	2322.094	2303.699	2291.031
LEVEL	49.7080	1468.781	1434.750	2625.895	2431.848	2443.680	2545.492	2520.059	2561.934	2544.914	2529.012
LEVEL	60.3326	1704.051	1632.809	2856.758	2649.145	2684.012	2806.750	2773.074	2810.891	2792.242	2774.117
LEVEL	80.4114	2152.148	2027.027	3349.316	3110.090	3156.457	3279.270	3252.836	3282.840	3263.152	3242.508
LEVEL	90.1826	2350.621	2206.008	3566.187	3322.707	3368.012	3485.441	3467.000	3495.945	3475.586	3453.090

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1325.328	1407.066	1190.062	1258.918
LEVEL	0.7732	1338.809	1420.801	1189.523	1257.902
LEVEL	1.2712	1353.816	1434.746	1189.133	1257.082
LEVEL	2.9234	1393.164	1477.230	1193.039	1258.953
LEVEL	4.2186	1420.504	1505.387	1193.660	1257.707
LEVEL	9.4512	1545.398	1634.285	1206.012	1261.926
LEVEL	13.0666	1633.746	1723.090	1213.469	1263.848
LEVEL	19.2944	1783.699	1876.062	1223.492	1265.582
LEVEL	26.1490	1948.859	2046.980	1233.910	1268.336
LEVEL	39.4152	2253.180	2352.934	1248.492	1270.219
LEVEL	49.7080	2485.328	2597.617	1256.664	1271.387
LEVEL	60.3326	2728.164	2841.086	1264.602	1272.121
LEVEL	80.4114	3193.133	3313.719	1279.340	1275.000
LEVEL	90.1826	3399.652	3522.324	1286.316	1275.988

DEVIATION FROM STRAIGHT LINE FIT

FILE #36

ELEMENT		6	5	16	15
LEVEL	0.7732	-.526	-.477	-3.840	-3.930
LEVEL	1.2712	2.861	2.566	-2.921	-2.992
LEVEL	2.9234	5.684	3.164	-2.452	-1.650
LEVEL	4.2186	6.055	2.492	-8.331	-6.053
LEVEL	9.4512	14.600	4.531	-20.569	-3.887
LEVEL	13.0666	16.372	5.573	-29.669	-2.169
LEVEL	19.2944	17.535	8.235	-37.972	.180
LEVEL	26.1490	21.673	13.597	-35.087	5.066
LEVEL	39.4152	18.616	13.474	-33.355	-.255
LEVEL	49.7080	16.531	12.990	-24.500	2.103
LEVEL	60.3326	14.910	12.662	-13.604	5.351
LEVEL	80.4114	7.009	6.499	-.819	3.403

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	2.095	2.256	2.057	2.043	1.934	2.015	2.077	2.077	2.046	2.021
LEVEL 0.7732	2.028	2.022	2.120	1.957	1.886	1.981	2.316	1.925	2.178	1.975
LEVEL 1.2712	2.039	2.057	2.831	2.037	2.081	2.016	2.112	2.073	2.261	2.073
LEVEL 2.9234	2.017	2.217	2.347	3.140	2.046	2.160	2.223	1.945	2.275	2.215
LEVEL 4.2186	2.002	2.129	2.701	2.986	1.993	2.189	2.325	2.153	2.376	2.106
LEVEL 9.4512	1.965	2.061	2.669	2.694	2.928	2.116	2.326	2.416	2.424	2.462
LEVEL 13.0666	1.949	2.040	2.783	2.864	3.193	2.338	2.340	2.612	2.913	2.688
LEVEL 19.2944	2.073	2.234	2.971	2.850	2.965	2.919	2.844	2.779	2.708	2.979
LEVEL 26.1490	2.227	1.940	3.590	3.353	3.280	3.270	3.286	3.038	3.137	3.208
LEVEL 39.4152	2.266	2.358	3.496	3.732	3.562	3.665	3.409	3.821	3.702	3.751
LEVEL 49.7080	2.079	2.094	3.809	4.032	3.948	4.083	3.971	3.946	3.798	3.836
LEVEL 60.3326	2.214	2.212	4.351	4.214	4.260	4.335	4.297	4.165	3.859	4.293
LEVEL 80.4114	2.054	2.333	4.468	4.584	4.729	4.503	4.565	4.633	4.918	4.952
LEVEL 90.1826	2.017	2.241	4.804	4.713	4.722	4.831	4.901	4.897	4.652	4.854

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	2.164	1.938	5.322	4.395	4.562	4.912	4.577	4.795	4.621	4.567
LEVEL	0.7732	1.974	1.995	5.406	4.483	4.771	4.759	4.869	4.726	4.609	4.458
LEVEL	1.2712	2.036	2.086	5.747	4.324	4.832	4.933	4.517	4.789	4.851	4.694
LEVEL	2.9234	2.180	2.173	4.804	4.279	4.767	4.840	5.042	4.897	4.696	4.664
LEVEL	4.2186	2.215	2.320	4.985	4.428	4.804	5.183	4.819	4.726	4.693	4.356
LEVEL	9.4512	2.360	2.441	6.000	4.394	4.945	4.978	4.695	5.096	4.664	4.654
LEVEL	13.0666	2.535	2.740	5.120	4.729	4.877	5.093	5.086	5.104	4.931	4.692
LEVEL	19.2944	2.676	2.734	5.205	4.928	4.887	4.941	4.889	5.003	5.264	4.786
LEVEL	26.1490	3.023	3.129	5.259	4.787	5.115	5.426	5.544	5.264	5.401	4.649
LEVEL	39.4152	3.400	3.234	6.084	5.059	5.069	5.754	5.346	5.493	5.336	5.230
LEVEL	49.7080	3.880	3.668	5.837	4.489	5.294	5.545	6.068	5.074	5.281	4.944
LEVEL	60.3326	3.899	3.836	5.530	5.470	5.656	5.784	5.997	6.006	4.671	5.337
LEVEL	80.4114	4.467	4.294	6.289	5.641	5.872	5.929	6.082	5.926	5.706	5.460
LEVEL	90.1826	4.548	4.250	7.970	5.537	5.966	5.873	6.551	5.759	5.989	5.774

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	4.352	4.698	4.084	4.240
LEVEL	0.7732	4.561	4.405	4.017	4.195
LEVEL	1.2712	4.408	4.811	4.034	3.919
LEVEL	2.9234	4.515	4.723	4.206	4.322
LEVEL	4.2186	4.346	4.997	3.749	4.087
LEVEL	9.4512	4.728	4.625	3.950	3.986
LEVEL	13.0666	4.778	4.878	3.967	4.114
LEVEL	19.2944	4.812	5.186	4.129	4.009
LEVEL	26.1490	4.718	4.078	3.842	4.167
LEVEL	39.4152	5.692	5.034	4.021	4.027
LEVEL	49.7080	5.469	5.574	3.758	4.239
LEVEL	60.3326	5.383	5.761	3.987	4.079
LEVEL	80.4114	5.402	6.038	3.963	4.137
LEVEL	90.1826	5.570	5.714	3.859	4.134

TAPE: FA30

FILE: 38

CHIP: 3453-11-3

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	254.930	219.965	272.691	227.082	216.934	230.105	248.301	246.449	386.305	249.652
LEVEL	0.2652	255.313	220.445	286.469	239.539	219.750	234.656	256.437	254.949	393.070	259.062
LEVEL	0.5064	255.703	220.973	295.121	254.316	222.273	238.789	264.285	262.453	399.812	266.391
LEVEL	1.1646	255.992	221.926	315.988	286.793	240.406	250.047	285.965	283.500	420.684	287.340
LEVEL	1.6806	256.215	222.629	330.430	303.152	261.555	258.766	302.539	298.746	435.152	302.133
LEVEL	3.7654	257.648	226.664	394.828	368.453	355.266	295.445	370.312	365.000	505.605	365.922
LEVEL	5.2058	258.055	229.160	438.687	412.645	415.074	325.070	415.078	409.590	548.715	408.660
LEVEL	7.6870	259.023	233.520	515.348	489.984	496.406	399.145	492.641	486.836	628.238	484.238
LEVEL	10.4772	259.160	236.867	602.570	576.980	585.496	484.793	580.570	574.582	719.777	570.539
LEVEL	15.7032	259.426	241.199	766.484	741.270	749.496	647.293	745.405	739.246	889.996	734.465
LEVEL	19.8040	259.676	243.379	894.078	867.969	875.645	773.555	872.492	866.098	1013.691	861.496
LEVEL	24.0368	260.051	245.336	1025.434	1000.070	1006.703	904.984	1004.273	997.594	1144.195	993.848
LEVEL	32.2002	260.477	248.309	1277.117	1251.305	1257.488	1156.227	1255.652	1248.934	1394.078	1244.816
LEVEL	35.9292	260.406	249.375	1388.980	1363.582	1369.484	1269.160	1367.484	1360.887	1508.633	1356.430

ALL LEVEL LIST OF
RESPONSE

..	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	254.148	262.000	750.437	722.922	744.891	753.109	751.406	882.980	748.535	729.695
LEVEL	0.2652	262.168	269.469	761.238	730.785	765.906	763.023	759.887	898.883	759.227	738.629
LEVEL	0.5064	268.562	277.145	766.074	738.750	763.605	770.105	767.219	904.078	767.965	747.187
LEVEL	1.1646	287.496	296.676	792.602	761.102	785.227	790.820	787.332	924.934	790.863	769.711
LEVEL	1.6806	301.605	311.656	811.988	776.770	800.555	806.617	801.469	938.559	804.637	785.836
LEVEL	3.7654	361.750	374.250	878.449	848.516	871.816	873.066	853.566	1010.289	876.187	856.715
LEVEL	5.2058	403.086	416.035	942.199	896.871	918.242	914.695	906.711	1058.707	923.246	903.703
LEVEL	7.6870	476.457	489.660	1034.645	978.457	996.543	989.906	936.250	1141.160	1005.434	987.027
LEVEL	10.4772	560.852	568.613	1130.105	1069.105	1082.543	1080.176	1078.191	1239.828	1097.590	1079.793
LEVEL	15.7032	723.563	709.531	1319.000	1235.078	1243.172	1259.332	1253.352	1407.715	1272.824	1252.723
LEVEL	19.8040	853.922	818.312	1458.863	1354.297	1372.699	1398.828	1391.812	1543.477	1408.977	1388.262
LEVEL	24.0368	989.727	934.266	1601.730	1484.520	1511.609	1541.559	1537.727	1685.035	1550.582	1529.059
LEVEL	32.2002	1244.414	1161.449	1878.223	1746.211	1782.187	1808.332	1817.656	1950.598	1820.273	1796.730
LEVEL	35.9292	1357.602	1264.148	2010.773	1864.809	1900.762	1926.984	1943.273	2069.906	1941.238	1917.762

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	697.664	751.320	614.477	653.859
LEVEL	0.2652	706.711	759.246	615.227	654.070
LEVEL	0.5064	714.887	771.883	615.996	654.297
LEVEL	1.1646	736.891	794.937	618.020	654.984
LEVEL	1.6806	753.094	812.164	619.176	655.125
LEVEL	3.7654	826.094	881.477	625.289	657.102
LEVEL	5.2058	875.414	928.012	628.066	657.344
LEVEL	7.6870	960.547	1008.363	633.195	658.105
LEVEL	10.4772	1054.223	1099.301	638.121	658.809
LEVEL	15.7032	1227.691	1268.223	644.203	658.797
LEVEL	19.8040	1361.313	1401.516	648.527	659.066
LEVEL	24.0368	1501.074	1538.375	652.363	659.242
LEVEL	32.2002	1765.738	1804.980	659.937	659.930
LEVEL	35.9292	1884.687	1924.715	663.656	660.059

DEVIATION FROM STRAIGHT LINE FIT

FILE #38

ELEMENT		6	5	16	15
LEVEL	0.2652	-1.488	-1.084	-1.770	5.694
LEVEL	0.5064	.204	.290	-.993	4.362
LEVEL	1.1646	1.402	.943	-2.690	3.497
LEVEL	1.6806	1.860	.141	-5.717	.030
LEVEL	3.7654	4.722	1.758	-12.748	2.919
LEVEL	5.2058	4.607	1.659	-17.397	3.741
LEVEL	7.6870	4.947	2.009	-20.096	4.297
LEVEL	10.4772	7.707	4.946	-18.856	12.639
LEVEL	15.7032	7.910	5.677	-19.020	5.929
LEVEL	19.8040	7.297	5.370	-16.551	6.262
LEVEL	24.0368	7.239	5.587	-11.039	8.002
LEVEL	32.2002	4.339	3.726	-1.901	3.894

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	1.019	1.049								
LEVEL 0.2652	1.068	1.160	1.418	1.194	1.102	1.152	1.102	1.596	15.831	1.124
LEVEL 0.5064	1.058	1.142	1.277	1.473	1.085	1.144	1.065	1.344	16.242	1.156
LEVEL 1.1646	.990	1.181	1.245	1.465	1.104	1.100	1.165	1.371	15.846	1.213
LEVEL 1.6806	1.035	1.134	1.279	1.311	1.476	1.144	1.244	1.431	16.110	1.210
LEVEL 3.7654	1.018	1.061	1.321	1.385	1.538	1.224	1.242	1.456	16.031	1.298
LEVEL 5.2058	1.184	1.128	1.477	1.405	1.738	1.264	1.342	1.409	15.959	1.404
LEVEL 7.6870	1.134	1.168	1.540	1.401	1.422	1.401	1.423	1.474	16.804	1.383
LEVEL 10.4772	1.030	1.171	1.678	1.577	1.500	1.712	1.615	1.556	16.839	1.567
LEVEL 15.7032	1.149	1.122	1.869	1.803	1.729	1.866	1.590	1.609	17.017	1.591
LEVEL 19.8040	1.096	1.085	1.988	1.998	2.081	2.021	2.055	1.930	17.761	1.849
LEVEL 24.0368	1.089	1.133	2.191	2.169	2.096	2.271	2.027	2.243	16.424	2.016
LEVEL 32.2002	1.123	1.206	2.370	2.432	2.228	2.323	2.239	2.216	16.467	2.384
LEVEL 35.9292	1.051	1.182	2.705	2.401	2.511	2.541	2.735	2.648	16.102	2.597
			2.650	2.472	2.533	2.629	2.506	2.557	17.720	2.530

ALL LEVEL LIST OF
RESP STR DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	1.169	1.178	3.068	2.396	2.484	2.712	2.586	2.658	2.475	2.253
LEVEL	0.2652	1.151	1.211	2.903	2.219	2.406	2.425	2.415	2.654	2.482	2.478
LEVEL	0.5064	1.157	1.295	2.374	2.336	2.604	2.395	2.459	2.889	2.303	2.389
LEVEL	1.1646	1.211	1.287	2.591	2.506	2.632	2.509	2.442	2.475	2.348	2.213
LEVEL	1.6806	1.213	1.191	3.007	2.275	2.394	2.398	2.366	2.892	2.364	2.402
LEVEL	3.7654	1.259	1.474	2.592	2.511	2.593	2.621	2.574	3.351	2.420	2.316
LEVEL	5.2058	1.302	1.300	2.767	2.560	2.449	2.633	2.656	3.411	2.579	2.425
LEVEL	7.6870	1.468	1.606	2.759	2.684	2.433	2.712	2.810	3.145	2.518	2.352
LEVEL	10.4772	1.660	1.639	5.172	2.550	2.420	2.858	2.725	2.939	2.639	2.450
LEVEL	15.7032	1.816	1.719	2.993	2.526	2.763	2.906	2.582	2.809	2.649	2.633
LEVEL	19.8040	2.053	2.055	2.711	2.574	2.788	2.900	2.819	2.744	2.856	2.788
LEVEL	24.0368	2.174	2.351	2.913	2.605	2.854	3.021	2.495	3.062	2.867	2.654
LEVEL	32.2002	2.292	2.252	2.882	3.063	2.947	3.099	2.973	3.000	2.814	2.882
LEVEL	35.9292	2.566	2.362	3.501	3.059	3.404	3.261	3.192	3.356	3.118	3.191

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	12	11	2A	2B
LEVEL 0.0000	2.204	2.487	2.017	1.939
LEVEL 0.2652	2.223	2.401	2.170	2.192
LEVEL 0.5064	2.109	3.819	2.349	2.304
LEVEL 1.1646	2.264	2.215	2.150	2.043
LEVEL 1.6806	2.240	2.285	2.023	2.131
LEVEL 3.7654	2.194	2.589	2.108	2.082
LEVEL 5.2058	2.330	2.604	2.073	2.138
LEVEL 7.6870	2.405	2.743	2.126	2.035
LEVEL 10.4772	2.581	2.520	2.170	2.025
LEVEL 15.7032	2.706	2.792	1.970	1.926
LEVEL 19.8040	2.666	2.846	1.988	2.090
LEVEL 24.0368	2.610	2.584	2.009	2.028
LEVEL 32.2002	2.928	3.114	1.985	2.117
LEVEL 35.9292	3.108	2.852	2.027	2.027

TAPE: FA30

FILE: 37

CHIP: 3453-11-3

DIRECTION: R

TDI-1

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	400.609	329.242	378.445	365.668	386.016	369.922	363.484	354.785	369.543	366.715
LEVEL	0.7732	400.676	329.441	392.539	380.539	401.324	384.090	378.523	369.348	384.250	382.422
LEVEL	1.2712	400.859	329.699	407.098	394.137	415.004	397.984	391.504	382.918	397.738	394.500
LEVEL	2.9234	401.445	330.520	444.953	431.305	452.082	434.102	427.863	419.535	434.562	430.652
LEVEL	4.2186	401.859	330.875	473.172	459.406	480.570	461.539	455.262	446.754	462.109	457.789
LEVEL	9.4512	403.117	332.602	587.980	575.312	595.703	575.215	570.617	561.707	577.219	571.227
LEVEL	13.0666	403.855	333.762	665.437	652.910	672.500	651.242	647.281	638.656	654.094	647.605
LEVEL	19.2944	405.266	335.750	802.453	789.777	808.793	785.742	783.176	774.508	789.574	782.312
LEVEL	26.1490	407.273	338.387	955.777	942.852	961.844	936.367	935.566	926.039	941.512	932.070
LEVEL	39.4152	410.379	342.637	1241.508	1229.090	1245.875	1218.383	1220.250	1210.258	1225.840	1213.828
LEVEL	49.7080	413.359	346.113	1462.773	1451.062	1465.652	1438.762	1441.848	1431.156	1447.492	1434.914
LEVEL	60.3326	415.980	349.598	1695.359	1682.926	1696.211	1668.547	1673.043	1661.977	1679.801	1664.172
LEVEL	80.4114	421.398	356.410	2136.004	2125.289	2135.367	2107.250	2114.559	2101.496	2119.965	2101.922
LEVEL	90.1826	423.414	359.285	2335.434	2323.086	2333.156	2303.586	2311.733	2299.555	2317.613	2297.902

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	363.461	378.437	1929.996	1979.168	2007.836	2016.859	1983.184	2102.352	1938.023	1900.027
LEVEL	0.7732	378.062	392.184	1946.953	1995.277	2031.043	2031.480	1997.504	2119.633	1952.227	1914.777
LEVEL	1.2712	391.273	404.113	1961.437	2009.441	2041.336	2044.762	2010.262	2128.758	1966.449	1927.859
LEVEL	2.9234	428.371	439.738	2002.926	2044.125	2076.539	2079.535	2046.559	2158.527	2002.566	1965.730
LEVEL	4.2186	455.480	464.789	2034.961	2069.102	2105.973	2106.902	2073.305	2184.852	2030.996	1994.355
LEVEL	9.4512	570.105	573.137	2162.965	2184.121	2219.137	2222.383	2191.352	2305.250	2148.977	2110.480
LEVEL	13.0666	647.695	641.613	2250.652	2262.238	2290.563	2302.543	2270.340	2385.293	2226.078	2190.176
LEVEL	19.2944	782.559	769.344	2404.676	2401.180	2424.719	2436.348	2403.191	2527.945	2367.977	2330.379
LEVEL	26.1490	933.828	911.637	2576.648	2554.555	2576.523	2589.242	2562.617	2679.949	2523.070	2485.277
LEVEL	39.4152	1218.027	1177.086	2898.133	2844.168	2861.301	2875.141	2852.910	2971.312	2817.734	2777.277
LEVEL	49.7080	1437.043	1382.559	3147.949	3066.312	3084.812	3097.480	3077.465	3193.770	3045.395	3003.848
LEVEL	60.3326	1664.051	1598.215	3409.297	3302.004	3319.246	3330.527	3313.883	3431.375	3281.621	3240.758
LEVEL	80.4114	2099.859	2011.184	3909.707	3753.414	3764.504	3777.578	3755.664	3883.227	3737.934	3695.586
LEVEL	90.1826	2296.633	2196.316	4065.734	3948.137	3957.871	3968.125	3951.152	4040.727	3936.879	3899.629

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1885.914	1910.676	1828.449	1899.488
LEVEL	0.7732	1900.992	1926.453	1828.332	1899.145
LEVEL	1.2712	1914.211	1939.176	1828.152	1898.500
LEVEL	2.9234	1951.344	1976.477	1828.613	1899.375
LEVEL	4.2186	1979.645	2004.418	1828.957	1899.469
LEVEL	9.4512	2094.520	2119.938	1830.859	1900.340
LEVEL	13.0666	2173.992	2199.871	1831.836	1900.754
LEVEL	19.2944	2312.414	2339.555	1834.375	1902.492
LEVEL	26.1490	2467.672	2495.926	1837.223	1905.129
LEVEL	39.4152	2756.945	2787.047	1842.801	1908.012
LEVEL	49.7080	2983.391	3013.172	1847.113	1911.125
LEVEL	60.3326	3218.855	3248.121	1851.289	1914.090
LEVEL	80.4114	3672.684	3705.609	1860.629	1920.035
LEVEL	90.1826	3876.496	3905.488	1863.297	1921.504

DEVIATION FROM STRAIGHT LINE FIT

FILE #37

ELEMENT		6	5	16	15
LEVEL	0.7732	-2.216	-2.163	-2.691	.611
LEVEL	1.2712	.550	.712	-.811	-.925
LEVEL	2.9234	1.256	1.739	-.711	-6.627
LEVEL	4.2186	.599	.954	-2.448	-8.216
LEVEL	9.4512	2.956	3.110	.877	-.244
LEVEL	13.0666	1.495	2.074	.548	2.070
LEVEL	19.2944	2.959	3.737	1.920	10.976
LEVEL	26.1490	6.588	7.271	5.823	15.469
LEVEL	39.4152	5.184	5.414	5.157	21.697
LEVEL	49.7080	4.485	4.414	4.024	22.986
LEVEL	60.3326	6.177	6.140	7.438	32.250
LEVEL	80.4114	4.549	3.803	10.914	43.703*

*Near A/D Saturation

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	2.102	2.195	2.426	2.364	2.356	2.170	2.301	2.117	2.311	2.306
LEVEL	0.7732	2.126	2.032	2.649	2.359	2.195	2.305	2.225	2.228	2.472	2.405
LEVEL	1.2712	2.238	2.209	2.308	2.375	2.366	2.420	2.345	2.236	2.331	2.502
LEVEL	2.9234	2.104	2.230	2.457	2.488	2.639	2.470	2.553	2.562	2.423	2.437
LEVEL	4.2186	2.218	2.191	2.563	2.600	2.529	2.563	2.604	2.443	2.512	2.436
LEVEL	9.4512	2.144	2.238	2.900	2.742	2.706	2.624	2.688	2.783	2.864	2.825
LEVEL	13.0666	2.182	2.253	2.888	2.896	2.612	2.727	2.936	2.784	2.938	2.674
LEVEL	19.2944	2.282	2.140	3.171	2.904	3.309	3.027	3.081	2.951	3.099	3.219
LEVEL	26.1490	2.224	2.281	3.326	3.259	3.583	3.194	3.423	3.359	3.473	3.468
LEVEL	39.4152	2.092	2.297	3.335	3.693	3.914	3.735	3.769	3.533	3.921	3.628
LEVEL	49.7080	2.188	2.208	3.898	4.290	4.054	4.219	4.191	4.182	4.005	4.311
LEVEL	60.3326	2.170	2.266	4.049	4.397	3.992	4.390	4.245	4.297	4.284	4.578
LEVEL	80.4114	2.307	2.207	5.380	4.819	4.944	4.800	4.716	4.800	4.841	5.166
LEVEL	90.1826	2.135	2.168	4.828	5.225	4.961	4.672	5.155	5.169	4.980	4.856

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	2.256	2.297	4.135	4.439	4.420	4.335	4.011	4.106	3.875	4.186
LEVEL 0.7732	2.380	2.456	3.872	4.075	4.287	4.124	4.149	4.120	4.133	4.019
LEVEL 1.2712	2.514	2.531	3.688	4.406	4.268	3.811	4.248	4.779	3.950	4.139
LEVEL 2.9234	3.497	2.443	3.876	3.663	4.657	4.105	3.397	4.605	4.079	4.106
LEVEL 4.2186	2.561	2.561	3.994	4.635	4.446	4.148	4.265	4.404	4.266	4.292
LEVEL 9.4512	2.725	2.921	4.634	4.437	4.637	4.292	4.171	4.367	4.389	4.288
LEVEL 13.0666	2.841	3.045	4.427	4.738	4.590	4.139	4.143	4.593	4.674	4.258
LEVEL 19.2944	3.108	3.285	4.146	4.543	4.621	5.030	4.550	4.136	4.432	4.330
LEVEL 26.1490	3.339	3.257	4.495	4.740	4.648	4.793	4.581	5.094	4.872	4.308
LEVEL 39.4152	3.684	3.929	5.472	5.262	5.066	5.129	4.543	5.186	4.920	5.313
LEVEL 49.7080	4.064	3.946	5.239	5.063	5.204	5.226	4.725	5.445	5.078	5.101
LEVEL 60.3326	4.370	4.291	5.259	5.869	5.372	5.710	5.508	5.478	5.382	5.297
LEVEL 80.4114	5.029	4.750	5.150	6.093	5.698	5.445	5.913	5.966	5.677	6.068
LEVEL 90.1826	4.858	4.660	2.794	5.061	5.244	4.861	5.056	3.246	5.175	5.808

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	12	2A	2B
LEVEL	0.0000	3.979	3.969	4.015	3.974
LEVEL	0.7732	3.785	4.436	4.006	3.913
LEVEL	1.2712	4.060	4.360	4.204	3.730
LEVEL	2.9234	4.162	4.203	4.103	3.520
LEVEL	4.2186	4.389	4.017	3.965	3.977
LEVEL	9.4512	4.074	4.200	3.999	3.917
LEVEL	13.0666	3.940	4.000	4.199	4.188
LEVEL	19.2944	4.423	4.124	3.706	4.022
LEVEL	26.1490	4.663	5.139	4.108	4.046
LEVEL	39.4152	4.756	4.895	4.159	3.873
LEVEL	49.7080	4.829	5.423	3.843	4.066
LEVEL	60.3326	5.578	5.679	4.011	4.104
LEVEL	80.4114	5.633	6.021	4.357	4.014
LEVEL	90.1826	5.773	5.920	3.827	4.204

TAPE: FA30

FILE: 41

CHIP: 3453-11-3

DIRECTION: R

TDI-1

ALL LEVEL LIST OF
RESPONSE

ELEMENT		1B	1A	10	9	8	7	6	5	4	3
LEVEL	1	399.437	330.293	473.840	417.676	437.844	442.875	405.199	389.941	695.391	410.051
LEVEL	2	400.684	330.414	433.832	380.246	404.074	415.586	380.859	370.832	635.414	385.078
LEVEL	3	401.148	329.645	380.332	366.207	386.359	370.293	364.371	355.043	370.621	368.027
LEVEL	4	402.445	330.336	334.848	338.062	333.379	332.988	332.898	333.695	334.160	333.523
LEVEL	5	720.434	692.012	707.297	709.508	709.824	706.801	704.453	705.258	703.969	703.340

ELEMENT		2	1	20	19	18	17	16	15	14	13
LEVEL	1	410.590	421.125	2111.574	2071.461	2100.969	2081.160	2040.996	2294.668	2026.992	1988.102
LEVEL	2	390.180	390.785	1988.383	2022.906	2072.008	2042.082	2007.566	2255.664	1973.137	1932.895
LEVEL	3	363.855	376.293	1934.207	1984.992	2008.340	2020.793	1937.125	2111.566	1940.777	1903.898
LEVEL	4	335.031	333.691	1845.031	1841.969	1838.973	1862.781	1840.844	1836.906	1837.309	1838.504
LEVEL	5	703.598	696.344	3490.965	3484.742	3480.484	3515.652	3485.457	3478.320	3480.199	3484.309

ELEMENT		12	11	2A	2B
LEVEL	1	1938.684	2079.711	1833.789	1902.184
LEVEL	2	1904.941	1921.797	1832.172	1902.742
LEVEL	3	1890.727	1912.047	1832.328	1903.172
LEVEL	4	1845.828	1842.480	1839.332	1916.059
LEVEL	5	3492.383	3495.734	3481.270	3516.168

TAPE: FA30

FILE: 40

CHIP: 3453-11-3

DIRECTION: F

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 1	491.527	423.992	520.691	435.359	417.398	441.727	475.242	473.602	736.355	480.363
LEVEL 2	490.383	424.648	452.559	419.102	406.504	428.367	447.867	449.898	702.656	451.000
LEVEL 3	479.781	412.426	416.918	405.617	395.340	404.855	424.070	416.969	464.047	430.437
LEVEL 4	461.262	391.316	391.922	383.840	380.766	389.238	389.129	384.746	384.719	390.184
LEVEL 5	855.785	821.035	863.219	852.895	845.543	840.086	833.973	835.480	833.266	834.406

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 1	490.258	503.848	1430.066	1371.953	1429.062	1436.551	1430.371	1683.375	1432.125	1389.160
LEVEL 2	466.531	470.316	1418.574	1348.293	1401.836	1408.152	1414.684	1525.434	1401.625	1379.848
LEVEL 3	434.309	445.914	1365.359	1309.105	1338.059	1387.012	1388.207	1385.914	1373.441	1351.523
LEVEL 4	393.684	389.781	1192.336	1212.629	1273.062	1311.105	1323.031	1314.969	1292.949	1264.820
LEVEL 5	837.875	834.660	1678.500	1702.586	1851.898	1872.254	1855.824	1807.156	1762.156	1718.527

ELEMENT	12	11	2A	2B
LEVEL 1	1331.090	1446.543	1173.570	1247.992
LEVEL 2	1322.758	1402.816	1168.957	1241.660
LEVEL 3	1304.238	1393.668	1170.797	1240.141
LEVEL 4	1239.801	1210.344	1165.324	1236.695
LEVEL 5	1674.066	1638.750	1565.953	1676.371

TAPE: FA30

FILE: 39

CHIP: 3453-11-3

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	488.871	421.734	518.164	433.187	415.727	440.586	474.066	470.844	739.258	478.965
LEVEL	14.057	491.980	427.437	647.727	594.426	519.949	503.520	593.070	585.887	850.242	591.758
LEVEL	2.957	492.168	427.762	654.234	601.473	527.527	507.695	600.906	593.387	857.437	599.492
LEVEL	3.192	492.328	429.551	676.547	624.578	562.840	520.516	625.121	616.637	883.066	623.094
LEVEL	2.664	492.379	428.504	671.781	619.703	554.234	517.437	620.195	612.168	877.762	616.105
LEVEL	2.761	492.613	430.004	693.535	640.406	584.449	529.258	642.551	633.418	895.566	637.297
LEVEL	2.156	492.504	428.457	662.937	611.477	540.605	512.410	610.093	602.512	867.020	608.043
LEVEL	2.131	492.516	429.074	663.805	611.926	542.211	513.102	612.440	605.367	875.754	613.180
LEVEL	2.119	492.957	429.934	679.270	628.984	568.484	523.801	631.012	622.273	889.953	625.898
LEVEL	1.683	492.422	428.559	651.113	601.320	527.500	507.887	600.570	593.234	855.152	599.629
LEVEL	2.037	493.543	430.840	697.094	648.793	594.086	533.117	650.734	640.961	902.707	643.812
LEVEL	2.285	494.402	432.090	705.937	637.098	606.152	538.602	617.156	646.691	912.051	649.207
LEVEL	2.553	494.187	431.281	688.523	640.359	579.723	527.828	600.551	630.445	897.238	633.105
LEVEL	3.997	494.410	432.344	696.000	640.902	588.773	530.002	642.320	631.555	901.434	636.715
LEVEL	6.473	496.422	435.117	715.303	664.613	612.555	539.480	655.075	642.977	910.605	645.496
LEVEL	16.149	512.070	455.617	803.328	752.551	741.375	597.805	744.035	726.254	993.852	721.773
LEVEL	49.162	536.594	490.488	960.691	913.387	914.219	770.906	897.344	874.309	1142.980	861.145

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	485.910	500.547	1400.336	1366.590	1416.070	1432.793	1426.121	1675.934	1428.074	1385.809
LEVEL	14.057	589.926	607.879	1548.824	1490.629	1536.520	1545.973	1536.695	1808.258	1547.719	1507.855
LEVEL	2.957	597.645	618.531	1549.457	1499.258	1543.535	1552.242	1541.320	1811.199	1554.465	1514.027
LEVEL	3.192	618.410	639.855	1592.219	1524.637	1568.566	1576.906	1563.910	1829.195	1578.352	1537.348
LEVEL	2.664	613.184	633.676	1584.664	1519.703	1562.598	1570.523	1558.859	1824.703	1572.469	1532.051
LEVEL	2.761	632.785	654.566	1614.840	1540.648	1584.066	1587.660	1577.160	1845.281	1596.031	1554.094
LEVEL	2.156	605.395	626.949	1579.707	1508.547	1549.805	1563.559	1549.340	1811.051	1562.367	1523.207
LEVEL	2.131	609.945	631.785	1582.625	1510.543	1548.918	1563.496	1549.219	1812.924	1563.262	1525.273
LEVEL	2.119	620.937	642.035	1594.691	1529.500	1565.520	1579.508	1565.563	1832.371	1582.484	1543.727
LEVEL	1.683	598.008	618.266	1563.285	1499.805	1540.598	1553.242	1539.523	1800.469	1551.047	1512.773
LEVEL	2.037	638.035	660.113	1598.980	1549.207	1590.297	1601.230	1584.238	1864.273	1603.180	1562.770
LEVEL	2.285	644.633	664.219	1600.059	1554.781	1596.789	1604.117	1590.340	1873.098	1613.016	1571.605
LEVEL	2.553	628.488	646.547	1599.418	1535.723	1578.816	1586.582	1570.254	1841.090	1593.059	1552.824
LEVEL	3.997	632.637	653.223	1609.660	1549.531	1591.809	1595.254	1575.559	1847.645	1602.285	1558.613
LEVEL	6.473	638.672	664.680	1633.035	1564.109	1607.500	1609.191	1590.633	1866.441	1619.613	1576.570
LEVEL	16.149	709.781	783.812	1708.398	1640.148	1683.320	1678.293	1660.582	1949.441	1709.875	1662.578
LEVEL	49.162	847.598	990.906	1939.047	1802.895	1841.434	1819.230	1804.367	2113.047	1873.184	1826.988

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1322.836	1434.984	1168.875	1242.379
LEVEL	14.057	1447.168	1553.633	1178.355	1245.742
LEVEL	2.957	1454.098	1559.594	1177.879	1244.590
LEVEL	3.192	1479.418	1586.402	1180.945	1245.875
LEVEL	2.664	1474.527	1579.574	1179.637	1245.430
LEVEL	2.761	1497.480	1603.023	1181.238	1245.172
LEVEL	2.156	1464.184	1570.094	1178.816	1244.648
LEVEL	2.131	1467.066	1574.750	1179.172	1244.926
LEVEL	2.119	1485.316	1594.570	1180.742	1245.133
LEVEL	1.683	1453.805	1561.410	1178.211	1244.516
LEVEL	2.037	1505.750	1612.660	1182.781	1246.508
LEVEL	2.285	1514.621	1620.895	1183.812	1246.434
LEVEL	2.553	1494.492	1603.484	1181.766	1245.980
LEVEL	3.997	1499.066	1611.246	1184.383	1247.437
LEVEL	6.473	1518.070	1633.262	1188.375	1250.523
LEVEL	16.149	1605.176	1718.012	1212.418	1270.809
LEVEL	49.162	1773.543	1884.969	1252.969	1303.828

RELATIVE SPECTRAL RESPONSE

FILE #39

ELEMENT	6	5	16	15
WAVELENGTH (μm)				
376	.098	.098	.101	.102
430	.495	.496	.501	.495
473	.546	.547	.556	.519
528	.633	.636	.642	.604
571	.704	.705	.705	.664
624	.728	.731	.736	.678
678	.749	.756	.744	.695
719	.854	.856	.848	.799
774	.867	.871	.868	.800
830	1.000	1.000	1.000	1.000
876	.924	.943	.926	.933
924	.752	.749	.728	.700
981	.485	.463	.485	.465
1019	.324	.318	.327	.318
1081	.193	.189	.187	.183
1130	.099	.098	.099	.096

TAPE: FA30

FILE: 24

CHIP: 3453-11-17

DIRECTION: F

TDI-1

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	536.949	490.371	580.488	557.586	563.180	526.148	517.562	536.250	508.105	533.504
LEVEL 0.7732	537.586	491.480	595.520	573.316	577.934	541.402	532.840	550.996	523.387	546.797
LEVEL 1.2712	538.094	492.605	609.879	587.422	591.523	555.480	547.191	565.059	537.324	559.473
LEVEL 2.9234	539.742	495.840	647.617	626.598	629.289	593.523	585.293	602.719	575.477	592.613
LEVEL 4.2186	540.965	498.301	677.434	656.328	657.625	622.395	614.215	630.988	604.020	618.281
LEVEL 9.4512	544.309	506.660	799.426	779.121	775.566	741.707	734.156	748.582	719.992	725.414
LEVEL 13.0666	545.805	511.543	882.047	862.559	857.309	822.578	815.871	829.492	799.480	801.480
LEVEL 19.2944	548.250	518.629	1025.316	1006.484	998.316	962.129	958.437	972.352	938.340	938.980
LEVEL 26.1490	549.848	524.418	1183.680	1167.020	1155.730	1118.156	1116.332	1131.129	1094.559	1095.238
LEVEL 39.4152	553.051	534.570	1479.961	1463.691	1447.797	1409.074	1410.164	1425.039	1385.613	1385.051
LEVEL 49.7080	555.168	543.324	1711.660	1693.621	1676.105	1637.160	1639.086	1654.629	1613.109	1607.672
LEVEL 60.3326	557.859	554.828	1951.105	1932.687	1913.324	1874.324	1876.332	1891.508	1849.871	1836.609
LEVEL 80.4114	562.109	580.691	2407.062	2388.195	2366.258	2326.680	2328.855	2345.480	2301.473	2271.684
LEVEL 90.1826	564.012	592.457	2611.848	2592.789	2568.949	2529.703	2531.391	2548.191	2504.008	2467.254

ALL LEVEL LIST OF
RESPONSE

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	613.910	548.480	2128.066	2079.488	2193.586	2153.289	2168.875	2160.137	2088.617	2014.799
LEVEL 0.7732	627.684	563.406	2147.324	2095.441	2150.695	2170.359	2185.375	2176.430	2104.195	2032.074
LEVEL 1.2712	640.398	576.598	2162.645	2110.422	2166.234	2185.230	2200.512	2191.359	2119.023	2046.055
LEVEL 2.9234	677.492	613.586	2207.566	2151.473	2206.301	2224.281	2239.645	2229.562	2158.645	2084.355
LEVEL 4.2186	705.328	642.609	2242.809	2181.887	2236.371	2254.367	2269.129	2258.656	2188.438	2114.473
LEVEL 9.4512	814.641	756.402	2378.449	2304.492	2358.633	2372.781	2385.984	2375.281	2308.469	2237.680
LEVEL 13.0666	885.480	832.953	2470.023	2387.203	2440.316	2452.691	2463.172	2454.246	2390.805	2323.281
LEVEL 19.2944	1010.746	966.461	2628.109	2529.781	2577.563	2587.199	2598.996	2594.332	2537.039	2473.113
LEVEL 26.1490	1154.047	1116.113	2806.871	2688.410	2726.043	2738.238	2755.523	2756.879	2702.664	2640.777
LEVEL 39.4152	1430.762	1394.625	3141.172	2969.922	3000.957	3031.766	3053.594	3070.844	3016.801	2953.105
LEVEL 49.7080	1651.656	1611.418	3402.285	3185.570	3224.887	3264.746	3306.773	3313.984	3257.117	3191.828
LEVEL 60.3326	1882.777	1836.625	3675.809	3418.184	3468.020	3511.117	3557.660	3563.074	3504.715	3438.937
LEVEL 80.4114	2327.199	2266.293	4094.227	3878.016	3938.832	3970.160	4006.515	4007.766	3968.645	3911.016
LEVEL 90.1826	2525.711	2459.422	4094.398	4039.871	4076.047	4091.691	4094.371	4094.348	4091.508	4059.125

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	2016.738	1947.684	1829.797	1983.949
LEVEL	0.7732	2032.895	1964.613	1831.391	1986.062
LEVEL	1.2712	2046.098	1980.207	1833.375	1986.250
LEVEL	2.9234	2083.914	2020.703	1836.957	1988.781
LEVEL	4.2186	2114.590	2050.016	1839.730	1990.797
LEVEL	9.4512	2237.230	2173.875	1851.273	1994.332
LEVEL	13.0666	2321.758	2258.750	1858.707	1996.430
LEVEL	19.2944	2467.961	2406.184	1867.867	1999.035
LEVEL	26.1490	2630.180	2569.023	1874.590	2000.246
LEVEL	39.4152	2933.840	2873.914	1883.098	2002.816
LEVEL	49.7080	3167.836	3109.102	1887.437	2004.504
LEVEL	60.3326	3414.020	3355.867	1891.887	2006.449
LEVEL	80.4114	3885.137	3828.062	1898.645	2009.883
LEVEL	90.1826	4044.926	4010.363	1901.504	2011.535

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	1.871	2.079	2.209	2.077	2.105	1.973	1.913	2.166	1.953	2.031
LEVEL 0.7732	1.982	1.903	2.212	2.172	2.189	2.114	2.115	2.183	2.172	2.203
LEVEL 1.2712	2.039	2.132	2.341	2.277	2.140	2.025	2.134	2.173	1.966	2.176
LEVEL 2.9234	2.061	2.164	2.244	2.264	2.213	2.065	2.139	2.265	2.031	2.141
LEVEL 4.2186	1.993	2.000	2.361	2.328	2.214	2.319	2.262	2.179	1.961	2.182
LEVEL 9.4512	1.787	2.095	2.334	2.525	2.729	2.367	2.233	2.430	2.251	2.380
LEVEL 13.0666	1.967	1.795	2.765	2.779	2.724	2.555	2.460	2.559	2.438	2.513
LEVEL 19.2944	2.041	2.228	2.955	2.725	2.967	2.987	2.783	2.804	2.708	2.859
LEVEL 26.1490	1.995	2.056	3.291	3.229	2.940	2.952	3.195	3.006	2.954	2.871
LEVEL 39.4152	2.004	2.239	3.689	3.291	3.593	3.470	3.317	3.215	3.284	3.355
LEVEL 49.7080	1.988	2.350	3.688	3.712	3.847	3.523	3.930	3.979	3.861	3.662
LEVEL 60.3326	1.983	2.126	4.137	3.968	3.982	3.958	4.200	4.002	4.139	4.136
LEVEL 80.4114	2.097	2.166	4.677	4.950	4.245	4.406	4.597	4.302	4.719	4.652
LEVEL 90.1826	1.983	2.311	4.841	4.976	4.891	4.545	4.345	4.434	4.515	4.865

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	2.083	1.789	6.873	6.010	6.572	6.135	6.099	6.554	6.261	6.326
LEVEL 0.7732	2.104	1.926	6.253	5.697	6.580	6.282	6.201	6.428	6.187	6.032
LEVEL 1.2712	2.334	1.849	6.998	6.642	6.292	6.376	6.051	6.174	6.121	5.616
LEVEL 2.9234	2.391	2.135	6.683	6.178	6.164	6.498	5.915	6.679	6.545	6.573
LEVEL 4.2186	2.439	2.106	6.285	6.380	6.126	6.495	6.076	6.395	6.436	6.307
LEVEL 9.4512	2.509	2.252	6.664	6.014	6.628	6.259	5.603	6.267	6.479	6.453
LEVEL 13.0666	2.686	2.387	6.816	6.445	6.255	6.462	6.162	6.725	6.547	6.750
LEVEL 19.2944	2.804	2.503	6.398	6.116	6.743	6.230	6.598	6.421	6.860	6.308
LEVEL 26.1490	2.936	2.999	6.777	6.492	6.320	6.654	5.237	6.537	6.755	6.504
LEVEL 39.4152	3.631	3.271	6.748	6.075	6.394	6.396	6.414	5.876	6.926	6.639
LEVEL 49.7080	3.664	3.324	7.154	6.483	6.930	6.842	7.759	6.863	7.376	6.573
LEVEL 60.3326	3.955	3.716	7.367	6.994	7.605	7.309	7.385	7.258	7.238	6.708
LEVEL 80.4114	4.301	4.601	1.470	6.648	5.790	5.431	4.500	4.467	5.430	6.554
LEVEL 90.1826	4.736	4.627	1.514	4.022	3.449	2.784	1.484	1.477	2.720	3.535

ALL LEVEL LIST OF
RESP STD DEVIATION

ECEMENT	12	11	2A	2B
LEVEL 0.0000	6.646	5.912	5.906	6.232
LEVEL 0.7732	6.324	6.072	5.960	6.234
LEVEL 1.2712	5.595	6.411	6.278	5.984
LEVEL 2.9234	6.368	6.272	5.818	6.109
LEVEL 4.2186	5.980	5.501	5.934	6.432
LEVEL 9.4512	6.436	6.161	5.990	6.139
LEVEL 13.0666	6.591	6.567	5.747	6.251
LEVEL 19.2944	6.086	6.066	5.699	6.112
LEVEL 26.1490	6.482	6.262	5.679	6.280
LEVEL 39.4152	6.971	6.484	6.059	6.370
LEVEL 49.7080	6.202	6.482	6.089	6.324
LEVEL 60.3326	6.719	6.658	5.884	6.141
LEVEL 80.4114	6.768	6.809	5.703	6.079
LEVEL 90.1826	3.973	4.468	5.689	5.976

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT	6	5	16	15
LEVEL 0.7732	-2.04	-2.56	-1.35	-1.74
LEVEL 1.2712	1.23	.44	2.37	1.65
LEVEL 2.9234	2.48	1.28	3.51	1.48
LEVEL 4.2186	2.40	.58	3.10	.38
LEVEL 9.4512	5.54	1.48	- .45	-4.63
LEVEL 13.0666	6.51	1.71	-6.50	-9.76
LEVEL 19.2944	10.12	5.75	-13.92	-14.37
LEVEL 26.1490	14.76	11.42	-15.37	-11.41
LEVEL 39.4152	12.36	9.37	-12.66	- 5.92
LEVEL 49.7080	11.50	9.40	-6.34	-2.05
LEVEL 60.3326	11.52	9.27	0.00	0.00
LEVEL 80.4114	6.50	6.13	0.00	0.00

TAPE: FA30

FILE: 26

CHIP: 3453-11-17

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	280.414	254.824	339.285	317.570	325.129	308.230	292.051	309.598	299.562	336.562
LEVEL	0.2652	280.484	255.145	347.820	326.344	333.461	316.520	300.537	318.031	308.859	344.297
LEVEL	0.5064	280.871	255.816	355.918	334.270	341.156	324.383	308.645	325.660	316.559	351.129
LEVEL	1.1646	281.273	257.250	377.746	356.367	362.695	345.805	330.344	346.785	337.699	369.918
LEVEL	1.6806	281.605	258.219	394.773	373.465	379.203	362.961	347.047	363.047	353.629	384.477
LEVEL	3.7654	282.395	261.613	463.953	443.016	447.453	431.555	415.793	431.254	420.719	448.930
LEVEL	5.2058	283.547	266.391	591.582	571.734	573.164	558.371	543.832	558.996	545.977	575.148
LEVEL	7.6870	283.531	266.437	591.480	571.805	574.246	558.793	543.770	558.840	545.961	575.871
LEVEL	10.4772	284.230	269.070	682.246	662.957	664.437	649.031	634.777	650.000	636.195	664.219
LEVEL	15.7032	284.516	273.738	850.992	832.133	831.547	817.742	803.715	818.363	804.098	829.348
LEVEL	19.8040	285.035	278.883	982.250	963.062	961.719	948.398	934.672	948.891	934.684	954.055
LEVEL	24.0368	285.344	285.145	1117.844	1098.500	1096.508	1084.172	1070.570	1084.648	1070.320	1084.879
LEVEL	32.2002	286.020	298.414	1376.125	1356.887	1352.824	1342.020	1328.855	1343.457	1328.289	1333.176
LEVEL	35.9292	286.246	304.289	1491.203	1471.516	1470.168	1456.547	1443.793	1456.414	1441.328	1450.449

ALL LEVEL LIST OF
RESPONSE

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	343.984	343.020	1153.320	1109.254	1128.871	1154.973	1153.187	1184.422	1107.379	1072.848
LEVEL 0.2652	351.988	351.125	1162.961	1117.770	1137.516	1163.309	1171.836	1192.293	1115.363	1081.562
LEVEL 0.5064	359.484	358.836	1172.539	1125.590	1145.434	1170.770	1178.875	1199.797	1123.043	1089.148
LEVEL 1.1646	379.785	379.395	1196.512	1147.699	1166.883	1192.555	1199.582	1220.168	1144.336	1109.914
LEVEL 1.6806	395.137	394.859	1214.863	1164.109	1183.137	1208.402	1215.051	1235.949	1159.977	1125.855
LEVEL 3.7654	455.844	459.578	1292.641	1234.055	1252.320	1275.750	1280.734	1302.770	1228.473	1195.887
LEVEL 5.2058	568.984	579.531	1436.625	1362.457	1375.613	1397.660	1403.762	1430.738	1357.383	1329.223
LEVEL 7.6870	568.926	579.301	1436.453	1362.668	1375.750	1397.781	1403.953	1430.418	1357.180	1329.699
LEVEL 10.4772	653.195	665.191	1538.340	1453.125	1461.609	1486.824	1495.008	1524.906	1450.145	1424.473
LEVEL 15.7032	813.812	824.742	1730.109	1612.813	1622.512	1656.465	1668.925	1702.523	1624.059	1599.395
LEVEL 19.8040	940.449	948.715	1879.879	1739.437	1751.184	1790.398	1808.613	1841.234	1760.293	1736.285
LEVEL 24.0368	1072.406	1077.117	2036.258	1873.863	1886.066	1930.832	1952.379	1983.266	1900.187	1877.277
LEVEL 32.2002	1324.355	1322.352	2334.668	2137.734	2152.484	2200.273	2223.641	2252.281	2168.168	2146.207
LEVEL 35.9292	1436.125	1431.734	2468.695	2257.734	2273.277	2320.961	2344.680	2372.730	2289.000	2267.437

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1072.398	1035.156	956.734	1042.488
LEVEL	0.2652	1080.746	1044.039	956.875	1042.352
LEVEL	0.5064	1088.523	1051.621	957.160	1042.273
LEVEL	1.1646	1110.242	1073.430	958.621	1042.473
LEVEL	1.6806	1126.445	1089.855	959.594	1042.559
LEVEL	3.7654	1196.590	1160.480	965.418	1044.090
LEVEL	5.2058	1327.117	1291.809	972.199	1045.453
LEVEL	7.6870	1327.316	1291.629	972.031	1045.547
LEVEL	10.4772	1420.266	1385.051	974.848	1045.906
LEVEL	15.7032	1592.648	1557.508	978.148	1046.340
LEVEL	19.8040	1728.473	1693.344	979.867	1046.988
LEVEL	24.0368	1868.496	1833.129	980.773	1046.746
LEVEL	32.2002	2137.309	2102.437	982.738	1047.355
LEVEL	35.9292	2258.508	2223.605	983.316	1047.277

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	1.063	1.031	1.128	1.196	1.107	1.307	1.096	1.116	1.200	1.312
LEVEL 0.2652	.982	.997	1.289	1.194	1.144	1.230	1.257	1.246	1.122	1.331
LEVEL 0.5064	.964	1.045	1.220	1.208	1.201	1.228	1.159	1.112	1.193	1.451
LEVEL 1.1646	1.000	1.021	1.196	1.230	1.234	1.135	1.204	1.210	1.181	1.336
LEVEL 1.6806	1.098	1.095	1.321	1.214	1.255	1.181	1.223	1.245	1.255	1.316
LEVEL 3.7654	1.069	1.093	1.468	1.403	1.351	1.481	1.314	1.442	1.322	1.535
LEVEL 5.2058	1.112	1.129	1.629	1.802	1.857	1.630	1.482	1.421	1.611	1.709
LEVEL 7.6870	1.073	1.061	1.516	1.685	1.541	1.521	1.484	1.570	1.762	1.739
LEVEL 10.4772	1.116	1.075	1.751	1.787	1.801	1.735	1.711	1.708	1.493	1.938
LEVEL 15.7032	1.077	1.119	1.922	1.952	1.919	1.951	2.062	1.880	1.890	2.148
LEVEL 19.8040	1.114	1.159	2.228	2.020	1.976	2.065	2.039	2.126	2.076	2.048
LEVEL 24.0368	1.077	1.191	2.414	2.432	2.129	2.232	2.130	2.098	1.964	2.243
LEVEL 32.2002	1.072	1.182	2.605	2.371	2.377	2.354	2.525	2.351	2.672	2.462
LEVEL 35.9292	1.073	1.202	2.603	2.609	2.492	2.665	2.593	2.614	2.684	2.578

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	1.181	1.291	3.414	3.031	3.113	3.318	3.301	3.185	3.283	3.181
LEVEL 0.2652	1.219	1.343	3.544	3.304	3.418	3.137	3.258	3.190	3.183	3.177
LEVEL 0.5064	1.165	1.279	3.465	3.188	3.354	3.031	3.210	3.318	3.328	3.143
LEVEL 1.1646	1.210	1.177	3.340	3.310	3.200	3.076	3.405	3.306	3.404	3.203
LEVEL 1.6806	1.338	1.309	3.430	3.215	3.191	3.299	3.174	3.362	3.208	3.253
LEVEL 3.7654	1.408	1.477	3.636	3.172	3.227	2.872	3.219	3.189	3.350	3.132
LEVEL 5.2058	1.542	1.383	3.364	3.097	3.123	3.220	3.433	3.502	3.260	3.270
LEVEL 7.6870	1.479	1.463	3.210	3.173	3.041	3.329	3.409	3.545	3.363	3.369
LEVEL 10.4772	1.514	1.692	3.301	3.101	3.175	3.281	3.431	3.372	3.302	3.316
LEVEL 15.7032	1.873	1.672	3.340	3.289	3.351	3.345	3.339	3.494	3.409	3.240
LEVEL 19.8040	1.986	1.789	3.555	3.233	3.312	3.336	3.592	3.382	3.325	3.411
LEVEL 24.0368	2.056	1.894	3.654	3.488	3.398	3.713	3.539	3.625	3.613	3.484
LEVEL 32.2002	2.332	2.180	3.266	3.312	3.646	3.645	3.864	3.572	3.650	3.429
LEVEL 35.9292	2.401	2.164	3.527	3.436	4.015	4.034	3.525	3.632	3.809	3.560

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	12	11	2A	2B
LEVEL 0.0000	3.129	3.127	3.050	3.569
LEVEL 0.2652	3.182	3.286	2.961	3.507
LEVEL 0.5064	3.130	3.091	2.969	3.342
LEVEL 1.1646	3.153	3.260	3.134	3.355
LEVEL 1.6806	3.216	3.146	3.182	3.277
LEVEL 3.7654	3.329	3.047	2.973	3.319
LEVEL 5.2058	3.171	3.186	2.889	3.355
LEVEL 7.6870	3.250	3.052	2.843	3.028
LEVEL 10.4772	3.321	3.397	2.997	3.074
LEVEL 15.7032	3.225	3.479	2.963	3.168
LEVEL 19.8040	3.072	3.474	2.978	3.201
LEVEL 24.0368	3.260	3.710	2.836	3.241
LEVEL 32.2002	3.352	3.571	3.044	3.272
LEVEL 35.9292	3.392	3.501	2.951	3.164

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT		6	5	16	15
LEVEL	0.2652	-1.32	-1.43	-1.51	-2.35
LEVEL	0.5064	0.35	-0.11	-0.97	-1.38
LEVEL	1.1646	0.98	0.03	-1.89	-2.76
LEVEL	1.6806	1.09	-0.22	-3.43	-4.09
LEVEL	3.7654	3.04	1.47	-6.27	-6.19
LEVEL	5.2058				
LEVEL	7.6870	5.36	3.97	-11.96	08.18
LEVEL	10.4772	8.72	7.83	-10.81	-4.13
LEVEL	15.7032	8.24	7.49	-10.69	-1.31
LEVEL	19.8040	7.78	7.17	-5.81	1.82
LEVEL	24.0368	8.00	7.83	-1.23	3.87
LEVEL	32.2002	4.61	6.08	1.60	2.90
LEVEL	35.9292	0.00	0.00	0.00	0.00

TAPE: FA30

FILE: 25

CHIP: 3453-11-17

DIRECTION: R

TDI-1

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	391.676	333.672	367.285	368.098	360.703	388.258	358.133	358.437	364.371	438.520
LEVEL 0.7732	391.965	333.937	381.773	382.535	374.723	403.660	372.754	372.852	378.668	453.082
LEVEL 1.2712	392.016	334.059	394.785	394.883	387.359	416.625	385.574	385.687	391.473	466.668
LEVEL 2.9234	392.516	334.879	431.625	429.500	422.402	452.062	421.313	421.121	427.008	502.203
LEVEL 4.2186	392.914	335.379	458.984	455.461	449.035	479.898	448.605	447.770	453.855	529.977
LEVEL 9.4512	393.660	336.277	571.980	565.352	558.879	590.461	561.047	559.316	564.410	642.156
LEVEL 13.0666	394.219	337.137	648.008	640.551	633.348	666.152	636.895	634.930	639.703	717.590
LEVEL 19.2944	395.246	338.520	780.344	772.992	764.598	798.223	770.121	767.082	771.504	849.660
LEVEL 26.1490	396.715	340.152	929.227	922.066	911.414	947.195	919.477	916.156	919.625	998.684
LEVEL 39.4152	399.230	342.742	1206.738	1199.785	1187.016	1224.539	1198.910	1193.750	1196.633	1275.055
LEVEL 49.7080	401.133	344.918	1423.836	1417.426	1402.258	1441.309	1415.832	1410.680	1412.574	1491.094
LEVEL 60.3326	403.187	347.375	1649.410	1643.574	1626.023	1668.176	1643.098	1636.555	1637.785	1716.824
LEVEL 80.4114	407.012	351.777	2080.879	2075.648	2054.992	2099.090	2076.492	2069.047	2069.063	2148.848
LEVEL 90.1826	408.867	354.070	2274.629	2270.469	2247.918	2292.715	2271.516	2263.676	2262.902	2343.406

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	367.781	393.809	1930.934	1916.895	1938.000	2006.863	1997.254	2017.699	1902.922	1877.945
LEVEL	0.7732	382.316	407.484	1948.082	1932.973	1953.809	2022.766	2012.430	2032.574	1918.348	1893.457
LEVEL	1.2712	395.160	419.379	1963.988	1947.734	1967.566	2036.719	2027.441	2046.402	1932.477	1908.121
LEVEL	2.9234	431.062	452.660	2007.457	1987.465	2007.477	2075.129	2055.382	2084.762	1973.289	1949.000
LEVEL	4.2186	458.059	477.906	2040.754	2017.727	2037.719	2105.680	2094.523	2114.691	2003.520	1979.852
LEVEL	9.4512	569.520	582.141	2179.262	2142.586	2162.184	2233.816	2221.145	2241.730	2129.891	2105.855
LEVEL	13.0666	645.164	653.395	2272.109	2227.754	2247.926	2319.727	2306.402	2325.719	2216.187	2193.473
LEVEL	19.2944	777.375	778.164	2437.352	2377.789	2396.953	2470.184	2455.750	2474.363	2366.656	2345.316
LEVEL	26.1490	926.082	918.449	2619.859	2545.266	2563.621	2637.770	2620.930	2640.027	2535.621	2515.117
LEVEL	39.4152	1203.891	1181.207	2965.004	2857.102	2876.016	2952.641	2934.055	2952.262	2850.605	2830.523
LEVEL	49.7080	1420.250	1385.773	3234.187	3101.238	3119.395	3197.043	3177.805	3191.602	3096.793	3077.711
LEVEL	60.3326	1645.680	1600.289	3515.832	3356.387	3374.504	3454.043	3433.434	3446.441	3354.516	3335.555
LEVEL	80.4114	2077.426	2009.668	4021.035	3844.859	3864.484	3941.508	3921.664	3931.148	3848.621	3831.176
LEVEL	90.1826	2270.738	2194.309	4094.379	4025.531	4038.230	4081.059	4070.038	4076.324	4030.512	4020.211

ALL LEVEL LIST OF
RESPONSE

ELEMENT	12	11	2A	2B
LEVEL 0.0000	1871.012	1856.977	1813.258	1871.992
LEVEL 0.7732	1887.406	1872.637	1812.965	1871.523
LEVEL 1.2712	1901.695	1886.848	1812.922	1871.449
LEVEL 2.9234	1942.531	1928.516	1813.059	1871.473
LEVEL 4.2186	1972.945	1958.977	1812.957	1871.551
LEVEL 9.4512	2100.266	2085.820	1814.199	1872.457
LEVEL 13.0666	2187.125	2172.527	1815.633	1873.211
LEVEL 19.2944	2338.746	2324.020	1817.070	1874.262
LEVEL 26.1490	2508.430	2493.191	1818.453	1876.012
LEVEL 39.4152	2824.465	2809.203	1822.793	1879.031
LEVEL 49.7080	3072.137	3056.059	1825.145	1880.730
LEVEL 60.3326	3329.547	3312.754	1828.770	1883.672
LEVEL 80.4114	3825.871	3806.695	1834.996	1888.902
LEVEL 90.1826	4016.711	4004.488	1837.777	1891.109

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT		6	5	16	15
LEVEL	0.7732	-1.83	-1.97	-3.29	-3.49
LEVEL	1.2712	.46	.39	- .09	-1.40
LEVEL	2.9234	1.19	.95	-1.74	-2.11
LEVEL	4.2186	.93	.17	-3.22	-2.93
LEVEL	9.4512	2.39	1.21	-1.15	.28
LEVEL	13.0666	1.51	.42	-2.00	-1.35
LEVEL	19.2944	2.72	1.11	- .81	- .03
LEVEL	26.1490	6.46	5.20	.96	3.16
LEVEL	39.4152	4.44	2.53	-1.78	1.32
LEVEL	49.7080	3.04	2.07	-3.04	-2.95
LEVEL	60.3326	4.91	3.51	- .36	- .38
LEVEL	80.4114	3.59	3.13	0.00	0.00

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FILE: 29

CHIP: 3453-11-17

DIRECTION: R

TDI-

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	1	391.752	336.090	472.520	431.770	461.234	439.555	401.457	434.094	419.375	516.699
LEVEL	2	392.484	335.496	419.320	388.953	402.176	411.852	379.230	387.848	399.344	472.762
LEVEL	3	393.105	335.027	368.539	369.590	361.969	391.066	359.508	359.793	366.047	441.195
LEVEL	4	394.973	336.285	339.902	342.184	337.000	336.859	336.898	338.293	338.512	339.238
LEVEL	5	802.082	778.094	788.094	787.328	785.148	785.273	782.191	784.937	786.215	785.887

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	1	513.168	502.105	2089.094	1985.652	2008.242	2075.113	2086.070	2130.707	2006.059	1967.516
LEVEL	2	395.316	451.270	1971.219	1946.848	1966.582	2031.875	2030.532	2054.410	1936.922	1921.133
LEVEL	3	369.164	394.863	1933.453	1919.895	1940.707	2009.395	2000.262	2017.586	1905.496	1880.355
LEVEL	4	340.582	340.312	1828.660	1830.066	1826.395	1825.637	1822.553	1819.996	1824.766	1820.152
LEVEL	5	787.387	782.977	3560.934	3568.781	3563.965	3562.215	3554.516	3547.715	3555.945	3548.906

	ELEMENT	12	11	2A	2B
LEVEL	1	1979.984	1916.625	1817.789	1874.656
LEVEL	2	1898.297	1879.430	1816.707	1874.684
LEVEL	3	1873.801	1859.813	1816.434	1875.102
LEVEL	4	1823.930	1822.980	1821.285	1884.176
LEVEL	5	3550.000	3554.500	3550.301	3579.289

TAPE: FA30

FILE: 28

CHIP: 3453-11-17

DIRECTION R

TDI-

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	1	539.383	489.984	652.238	610.324	621.707	593.344	561.828	594.207	575.906	646.827
LEVEL	2	539.070	491.242	631.660	582.445	601.301	547.859	538.832	569.312	545.227	563.645
LEVEL	3	537.523	490.812	580.770	556.664	560.297	526.379	517.969	536.551	508.246	534.574
LEVEL	4	539.223	493.125	523.484	504.328	494.512	492.590	487.484	478.312	476.402	486.922
LEVEL	5	1098.242	1069.520	1154.332	1118.406	1093.574	1090.387	1077.387	1076.273	1072.191	1074.887

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	1	661.047	657.137	2198.797	2114.379	2153.137	2203.293	2219.168	2241.102	2112.094	2046.363
LEVEL	2	639.824	612.180	2158.367	2098.340	2145.316	2165.582	2138.074	2180.848	2096.984	2035.359
LEVEL	3	614.758	548.258	2112.746	2064.934	2118.855	2139.148	2154.459	2146.117	2073.992	2000.398
LEVEL	4	487.781	480.746	1962.129	1988.262	2048.609	2065.848	2073.578	2048.527	1991.809	1939.473
LEVEL	5	1086.609	1080.305	3815.152	3816.043	3911.680	3911.488	3899.789	3849.187	3802.383	3757.551

	ELEMENT	12	11	2A	2B
LEVEL	1	2045.340	1973.723	1820.578	1987.344
LEVEL	2	2023.801	1953.832	1818.770	1980.430
LEVEL	3	2003.223	1933.402	1817.090	1969.969
LEVEL	4	1904.922	1886.621	1815.047	1962.277
LEVEL	5	3742.223	3721.082	3540.918	3804.613

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FILE: 27

CHIP: 3453-11-17

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	536.777	487.539	649.895	608.363	622.852	589.895	559.590	591.676	573.566	640.898
LEVEL 14.057	539.324	495.449	771.621	730.711	742.289	710.332	678.891	709.605	691.805	749.480
LEVEL 2.957	540.531	496.598	777.496	736.875	748.711	717.039	685.363	717.559	698.910	757.910
LEVEL 3.192	540.652	497.980	803.703	762.809	771.344	742.332	710.918	741.840	723.613	781.027
LEVEL 2.664	540.613	497.715	798.035	757.086	765.000	736.344	704.965	735.043	717.426	773.836
LEVEL 2.761	540.812	498.965	818.105	777.199	783.797	756.109	725.113	754.820	736.465	791.680
LEVEL 2.156	540.223	496.875	783.687	743.172	751.004	722.609	692.434	722.937	705.340	765.078
LEVEL 2.131	540.668	497.469	793.086	753.168	760.449	733.207	703.691	733.359	716.449	774.453
LEVEL 2.119	540.648	498.172	805.117	764.465	770.457	741.957	711.102	739.727	721.598	779.082
LEVEL 1.683	540.070	496.500	780.379	739.988	747.426	721.082	689.832	720.367	703.410	762.664
LEVEL 2.037	541.762	500.195	831.082	790.273	798.180	768.582	737.570	765.867	746.750	799.344
LEVEL 2.285	542.246	501.207	838.980	798.363	803.191	778.008	747.281	775.586	757.539	813.148
LEVEL 2.553	542.258	500.457	823.672	782.949	787.336	761.176	730.163	758.156	738.922	793.152
LEVEL 3.997	542.855	501.172	824.543	784.699	789.695	765.418	736.414	765.211	747.723	804.121
LEVEL 6.473	544.488	502.949	831.020	791.125	794.242	769.680	740.723	768.902	751.094	805.992
LEVEL 16.149	562.008	522.949	914.777	874.805	873.117	849.020	819.742	846.465	824.852	873.887
LEVEL 49.162	591.203	556.723	1077.602	1039.285	1032.820	1011.652	985.176	1009.895	984.066	1027.852

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	658.523	657.301	2198.535	2112.375	2150.574	2200.559	2216.328	2257.285	2109.258	2044.340
LEVEL	14.057	768.805	768.539	2336.988	2236.125	2272.500	2320.559	2334.484	2375.113	2229.949	2165.383
LEVEL	2.957	780.328	780.141	2347.629	2243.836	2279.828	2329.055	2342.145	2383.609	2235.957	2169.645
LEVEL	3.192	803.352	805.750	2377.227	2269.039	2305.230	2353.809	2366.246	2406.891	2261.289	2195.742
LEVEL	2.664	796.305	798.121	2366.293	2263.285	2299.781	2347.395	2360.121	2400.125	2255.570	2189.629
LEVEL	2.761	813.895	815.199	2388.863	2282.141	2318.902	2366.734	2373.602	2417.836	2274.102	2209.367
LEVEL	2.156	786.887	786.863	2351.418	2248.262	2285.133	2333.465	2346.234	2385.656	2240.504	2174.980
LEVEL	2.131	796.473	794.855	2363.738	2258.109	2293.363	2341.691	2353.777	2393.691	2248.266	2183.137
LEVEL	2.119	799.832	800.789	2369.578	2269.754	2307.016	2354.422	2367.016	2405.797	2261.883	2196.887
LEVEL	1.683	784.371	782.453	2345.977	2244.301	2281.508	2329.156	2342.305	2379.406	2235.703	2171.273
LEVEL	2.037	821.309	818.980	2395.996	2295.445	2332.758	2378.102	2391.410	2428.523	2286.754	2221.660
LEVEL	2.285	832.484	831.621	2403.949	2300.711	2337.816	2383.254	2396.852	2434.340	2293.031	2228.363
LEVEL	2.553	809.723	803.281	2381.449	2284.246	2322.305	2368.699	2382.035	2419.117	2278.734	2213.855
LEVEL	3.997	820.828	818.945	2388.441	2284.676	2321.000	2366.340	2381.812	2419.379	2278.648	2213.246
LEVEL	6.473	821.348	824.035	2395.395	2289.715	2326.453	2371.391	2388.012	2424.547	2284.438	2220.285
LEVEL	16.149	879.195	920.547	2511.520	2370.016	2405.355	2447.402	2466.281	2504.215	2367.168	2304.660
LEVEL	49.162	1018.488	1131.945	2741.359	2527.684	2557.875	2594.219	2616.113	2657.461	2526.344	2468.215

ALL LEVEL LIST OF
RESPONSE

ELEMENT	12	11	2A	2B
LEVEL 0.0000	2043.258	1972.191	1819.102	1985.895
LEVEL 14.057	2164.770	2093.805	1828.855	1989.320
LEVEL 2.957	2170.953	2098.238	1828.113	1989.211
LEVEL 3.192	2196.562	2125.016	1829.723	1989.391
LEVEL 2.664	2190.008	2119.121	1828.746	1988.859
LEVEL 2.761	2209.363	2139.793	1830.750	1989.437
LEVEL 2.156	2175.441	2104.820	1827.750	1988.367
LEVEL 2.131	2183.898	2113.949	1828.371	1988.789
LEVEL 2.119	2197.230	2126.844	1829.645	1988.777
LEVEL 1.683	2171.473	2100.945	1827.625	1988.695
LEVEL 2.037	2222.145	2153.215	1832.551	1990.223
LEVEL 2.285	2229.187	2159.824	1833.602	1990.195
LEVEL 2.553	2213.590	2144.648	1833.105	1991.020
LEVEL 3.997	2213.508	2143.609	1833.234	1991.621
LEVEL 6.473	2218.188	2149.212	1835.137	1992.875
LEVEL 16.149	2302.551	2234.832	1859.398	2012.848
LEVEL 49.162	2464.004	2398.367	1897.730	2044.020

RELATIVE SPECTRAL RESPONSE

ELEMENT	6	5	16	15
WAVELENGTH (μm)				
376	.097	.098	.098	.099
430	.487	.498	.495	.508
473	.543	.550	.546	.557
528	.624	.629	.627	.637
571	.711	.715	.708	.716
624	.706	.712	.701	.709
678	.775	.778	.751	.762
719	.818	.816	.827	.833
774	.887	.894	.871	.863
830	1.000	1.000	1.000	1.000
876	.939	.940	.918	.921
924	.765	.763	.755	.754
981	.506	.507	.481	.482
1019	.320	.320	.308	.307
1081	.184	.184	.180	.182
1130	.099	.099	.095	.097

TAPE: FA30

FILE: 30

CHIP: 3453-11-4

DIRECTION: F

TDI-1

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	343.285	283.344	376.488	312.566	325.211	319.043	317.879	315.273	310.746	329.285
LEVEL	0.7732	343.613	284.223	393.133	327.855	340.781	333.402	333.121	330.723	326.434	344.297
LEVEL	1.2712	344.059	284.609	407.980	341.598	354.355	347.633	347.359	344.277	341.020	359.246
LEVEL	2.9234	344.566	285.398	445.570	379.434	390.559	384.664	384.211	382.441	379.746	395.848
LEVEL	4.2186	345.070	286.332	475.707	407.832	420.715	413.367	412.719	410.848	409.352	424.617
LEVEL	9.4512	346.562	289.055	597.160	525.371	534.469	527.699	528.922	528.027	530.320	538.730
LEVEL	13.0666	347.766	290.828	679.328	605.352	614.031	606.906	608.094	607.770	612.453	617.832
LEVEL	19.2944	349.535	293.648	822.309	743.789	751.441	743.398	745.078	746.805	753.973	754.766
LEVEL	26.1490	351.523	296.266	981.379	899.375	905.719	896.848	899.430	901.926	911.164	909.496
LEVEL	39.4152	354.879	300.961	1277.098	1189.477	1194.875	1184.082	1187.783	1192.031	1204.773	1198.594
LEVEL	49.7080	357.535	304.719	1507.852	1415.781	1420.484	1409.281	1413.355	1418.187	1432.195	1424.586
LEVEL	60.3326	360.453	308.473	1748.383	1650.961	1654.031	1642.090	1648.027	1653.508	1668.578	1659.551
LEVEL	80.4114	365.953	315.555	2202.797	2100.148	2102.527	2088.837	2095.109	2103.086	2119.055	2109.270
LEVEL	90.1826	368.293	318.535	2408.613	2302.516	2304.457	2290.867	2297.344	2305.098	2321.762	2310.062

ALL LEVEL LIST OF
RESPONSE

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	322.309	316.512	672.371	659.109	661.137	721.402	656.145	666.828	675.637	657.625
LEVEL 0.7732	338.133	330.461	692.727	678.758	678.715	767.965	675.148	684.980	694.164	674.469
LEVEL 1.2712	351.973	343.535	713.648	694.578	693.004	759.562	690.570	701.156	710.176	690.469
LEVEL 2.9234	389.238	379.027	760.320	737.816	736.551	793.855	732.121	745.285	753.273	731.852
LEVEL 4.2186	416.965	405.633	800.504	772.340	769.660	834.195	764.812	778.316	785.629	763.703
LEVEL 9.4512	531.227	516.605	946.953	906.441	902.625	964.352	896.887	914.437	920.203	893.621
LEVEL 13.0666	609.391	591.812	1045.613	995.180	995.016	1055.156	985.418	1006.277	1010.906	982.219
LEVEL 19.2944	744.988	722.641	1219.203	1152.422	1143.301	1201.766	1138.803	1162.594	1167.234	1134.582
LEVEL 26.1490	896.773	869.930	1416.418	1329.195	1318.488	1389.293	1313.516	1339.160	1343.895	1307.988
LEVEL 39.4152	1181.754	1144.160	1785.617	1657.113	1641.744	1715.562	1637.052	1665.316	1672.578	1628.754
LEVEL 49.7080	1403.984	1358.422	2068.281	1913.543	1898.445	1968.285	1891.137	1921.273	1929.570	1881.762
LEVEL 60.3326	1634.973	1581.492	2363.789	2176.973	2167.437	2228.691	2154.035	2184.063	2193.398	2142.805
LEVEL 80.4114	2078.680	2007.668	2928.445	2677.410	2679.902	2728.930	2655.020	2689.000	2695.695	2641.070
LEVEL 90.1826	2280.480	2200.254	3182.605	2905.824	2908.980	2950.223	2881.164	2917.301	2924.047	2866.480

ALL LEVEL LIST OF
RESPONSE

ELEMENT	12	11	2A	2B
LEVEL 0.0000	697.363	703.418	596.559	656.070
LEVEL 0.7732	714.527	717.684	597.609	656.875
LEVEL 1.2712	730.695	735.262	598.270	657.355
LEVEL 2.9234	774.605	779.164	599.637	658.320
LEVEL 4.2186	807.070	810.285	600.934	659.383
LEVEL 9.4512	940.109	951.629	604.484	660.895
LEVEL 13.0666	1028.086	1042.160	606.551	662.613
LEVEL 19.2944	1184.926	1198.555	610.395	664.824
LEVEL 26.1490	1358.555	1369.887	614.293	667.152
LEVEL 39.4152	1685.594	1700.469	620.816	671.016
LEVEL 49.7080	1936.703	1956.473	625.977	673.898
LEVEL 60.3326	2198.750	2225.219	631.281	677.246
LEVEL 80.4114	2701.453	2727.523	641.008	683.484
LEVEL 90.1826	2930.211	2956.184	645.355	686.418

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT		6	5	16	15
LEVEL	0.7732	1.781	1.663	.131	1.202
LEVEL	1.2712	-1.570	-.947	-3.053	-2.596
LEVEL	2.9234	-2.197	-2.698	-3.886	-5.542
LEVEL	4.2186	-2.201	-2.450	-4.537	-6.166
LEVEL	9.4512	-3.595	-4.220	-7.560	-11.759
LEVEL	13.0666	-3.391	-4.171	-6.868	-13.355
LEVEL	19.2944	-3.791	-5.908	-6.732	-14.390
LEVEL	26.1490	-7.506	-9.603	-12.115	-19.695
LEVEL	39.4152	-4.686	-7.006	-8.362	-14.806
LEVEL	49.7080	-4.396	-6.123	-8.561	-13.984
LEVEL	60.3326	-5.886	-7.042	-9.353	-11.668
LEVEL	80.4114	-3.235	-4.532	-4.812	-5.298

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	1.949	1.936	2.420	2.074	2.068	2.107	1.933	1.873	1.999	2.347
LEVEL 0.7732	2.036	2.018	2.206	2.021	2.203	2.058	2.027	1.834	1.995	2.495
LEVEL 1.2712	1.932	2.113	2.346	2.292	2.172	2.036	2.185	2.181	2.074	2.420
LEVEL 2.9234	2.045	1.942	2.499	2.209	2.215	2.381	2.001	2.038	2.166	2.278
LEVEL 4.2186	2.007	1.896	2.564	2.275	2.085	2.261	2.189	2.108	2.255	2.400
LEVEL 9.4512	2.024	1.980	2.524	2.424	2.540	2.556	2.600	2.449	2.386	2.863
LEVEL 13.0666	2.045	2.096	3.019	2.426	2.530	2.582	2.589	2.621	2.486	2.701
LEVEL 19.2944	1.966	2.126	3.121	2.878	3.012	2.860	2.890	2.748	2.883	2.837
LEVEL 26.1490	2.048	2.025	3.375	3.204	2.972	3.256	3.173	3.166	3.294	3.262
LEVEL 39.4152	2.082	1.968	3.750	3.570	3.303	3.546	3.539	3.273	3.534	3.611
LEVEL 49.7080	1.864	2.105	4.095	3.839	3.869	3.897	3.784	3.702	3.931	3.838
LEVEL 60.3326	2.108	2.079	4.329	3.983	4.156	4.138	3.626	4.043	3.772	3.973
LEVEL 80.4114	2.108	2.108	4.698	4.629	4.564	4.830	4.406	4.510	4.718	4.923
LEVEL 90.1826	2.100	2.013	5.212	4.670	4.871	4.585	4.634	4.741	4.278	4.552

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	1.991	1.948	3.637	2.392	2.881	3.524	2.353	2.221	2.487	2.184
LEVEL 0.7732	2.069	1.994	3.268	2.359	2.791	2.997	2.260	2.266	2.297	2.478
LEVEL 1.2712	2.290	1.952	3.109	2.610	2.439	3.345	2.305	2.237	2.484	2.414
LEVEL 2.9234	2.218	1.961	2.556	2.434	2.508	3.770	2.470	2.597	2.460	2.519
LEVEL 4.2186	2.193	2.093	2.635	2.610	2.958	3.400	2.490	2.522	2.643	2.613
LEVEL 9.4512	2.423	2.312	3.011	2.962	2.705	3.661	2.793	2.925	2.843	2.905
LEVEL 13.0666	2.413	2.408	3.105	3.019	3.112	3.708	2.883	3.100	3.101	2.809
LEVEL 19.2944	2.671	2.739	3.703	2.921	3.390	4.132	3.339	3.237	3.097	3.083
LEVEL 26.1490	3.269	2.783	4.098	3.337	4.360	4.594	3.498	3.503	3.545	3.606
LEVEL 39.4152	3.408	3.558	4.198	3.869	4.254	4.461	3.979	3.733	3.815	3.784
LEVEL 49.7080	3.596	3.545	4.309	3.823	4.063	4.461	3.795	4.076	4.279	4.485
LEVEL 60.3326	3.916	4.058	4.403	4.629	5.173	4.914	4.269	4.745	4.675	4.089
LEVEL 80.4114	4.576	4.331	5.792	5.739	5.476	5.270	5.240	4.766	5.029	5.185
LEVEL 90.1826	4.756	4.276	5.447	4.818	5.402	5.425	5.360	4.830	5.384	5.062

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	12	11	2A	2B
LEVEL 0.0000	2.473	3.051	2.112	2.260
LEVEL 0.7732	2.406	3.301	2.102	2.260
LEVEL 1.2712	2.675	3.113	2.269	2.303
LEVEL 2.9234	2.782	3.189	2.319	2.147
LEVEL 4.2186	2.722	3.420	2.060	2.146
LEVEL 9.4512	3.000	3.405	2.225	2.230
LEVEL 13.0666	2.717	3.811	2.305	2.313
LEVEL 19.2944	3.279	3.485	2.273	2.292
LEVEL 26.1490	3.583	3.733	2.413	2.245
LEVEL 39.4152	3.969	4.227	2.227	2.194
LEVEL 49.7080	4.077	4.642	2.469	2.250
LEVEL 60.3326	4.601	4.979	2.528	2.256
LEVEL 80.4114	4.879	5.557	2.448	2.453
LEVEL 90.1826	5.647	5.654	2.296	2.207

TAPE: FA30

FILE: 32

CHIP: 3453-11-4

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	180.746	148.914	949.367	200.953	198.762	186.066	201.457	190.664	186.141	197.441
LEVEL 0.2652	180.707	149.043	954.258	209.875	207.254	194.867	210.148	198.840	195.488	205.836
LEVEL 0.5064	180.711	149.059	956.926	217.824	214.906	202.117	219.805	206.598	202.777	213.492
LEVEL 1.1646	180.820	149.203	978.352	239.000	236.152	223.742	241.652	228.473	223.879	233.777
LEVEL 1.6806	180.965	149.332	1002.590	255.520	252.824	239.922	255.168	244.570	240.617	250.543
LEVEL 3.7654	181.074	149.840	1067.922	323.008	320.223	306.414	323.949	311.062	308.473	316.980
LEVEL 5.2058	181.383	150.070	1114.770	368.656	365.816	352.227	368.547	356.453	354.453	361.316
LEVEL 7.6870	181.773	150.465	1197.543	448.605	444.867	431.195	448.965	435.437	434.031	439.844
LEVEL 10.4772	182.070	150.988	1279.195	538.004	533.691	520.082	538.527	524.246	524.008	528.914
LEVEL 15.7032	182.695	151.949	1439.051	704.691	700.906	686.660	705.425	690.254	690.066	696.094
LEVEL 19.8040	183.137	152.633	1564.871	833.391	830.797	815.797	834.297	819.711	820.551	826.270
LEVEL 24.0368	183.660	153.379	1699.484	967.543	964.937	950.453	968.902	954.129	954.090	960.387
LEVEL 32.2002	184.684	154.762	1944.637	1224.609	1222.484	1207.918	1223.652	1211.121	1209.754	1217.918
LEVEL 35.9292	185.086	155.430	2056.262	1338.996	1336.770	1322.980	1339.754	1325.590	1324.121	1331.188

ALL LEVEL LIST OF
RESPONSE

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	200.191	193.531	397.629	375.988	394.191	406.707	367.738	366.191	392.465	366.691
LEVEL 0.2652	206.855	201.832	410.719	386.391	404.383	419.637	377.645	377.273	406.043	376.992
LEVEL 0.5064	216.344	209.566	419.250	395.934	409.324	429.348	387.074	386.035	413.254	386.309
LEVEL 1.1646	237.590	230.168	447.625	418.066	433.523	453.906	411.043	411.742	437.055	410.867
LEVEL 1.6806	254.414	246.898	469.211	437.270	453.449	470.633	428.520	430.270	454.637	429.359
LEVEL 3.7654	320.715	310.687	553.242	513.043	528.637	543.750	505.512	507.828	532.715	505.453
LEVEL 5.2058	365.234	354.117	609.785	564.406	576.023	600.250	555.598	558.484	582.551	555.508
LEVEL 7.6870	444.227	430.574	713.477	654.250	662.348	689.281	645.445	648.965	673.570	645.473
LEVEL 10.4772	532.199	516.008	824.148	755.582	765.828	802.141	747.078	750.340	775.422	746.227
LEVEL 15.7032	694.652	676.098	1035.734	942.844	948.426	980.273	935.488	936.836	962.707	933.891
LEVEL 19.8040	823.887	801.395	1197.773	1084.781	1093.180	1126.887	1080.707	1081.238	1109.207	1077.273
LEVEL 24.0368	958.703	930.910	1366.391	1235.883	1246.020	1277.355	1231.815	1231.680	1258.758	1228.137
LEVEL 32.2002	1213.703	1176.723	1691.320	1520.629	1537.574	1564.992	1520.453	1520.863	1545.324	1516.168
LEVEL 35.9292	1328.434	1287.402	1840.297	1647.168	1665.023	1691.742	1649.066	1649.422	1674.535	1644.566

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	387.816	420.332	314.520	348.547
LEVEL	0.2652	397.734	429.105	314.766	348.875
LEVEL	0.5064	407.273	436.297	314.934	348.902
LEVEL	1.1646	430.941	465.996	315.652	349.211
LEVEL	1.6806	450.113	486.336	316.016	349.387
LEVEL	3.7654	525.340	562.621	317.219	349.676
LEVEL	5.2058	575.527	614.078	317.895	350.152
LEVEL	7.6870	666.578	701.000	319.059	350.473
LEVEL	10.4772	766.488	799.617	320.324	350.961
LEVEL	15.7032	954.262	984.332	322.098	351.754
LEVEL	19.8040	1098.133	1130.898	323.570	352.477
LEVEL	24.0368	1249.262	1284.559	324.949	353.051
LEVEL	32.2002	1536.793	1570.457	327.598	354.035
LEVEL	35.9292	1665.465	1700.184	328.875	354.742

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT		6	5	16	15
LEVEL	0.2652	1.098	1.584	1.113	-.046
LEVEL	0.5064	-2.298	.068	-1.269	-1.750
LEVEL	1.1646	-3.314	-1.037	-1.790	-3.974
LEVEL	1.6806	-1.439	-0.791	-.815	-4.023
LEVEL	3.7654	-3.198	-1.458	-3.490	-7.154
LEVEL	5.2058	-2.151	-1.338	-2.195	-6.353
LEVEL	7.6870	-4.026	-2.012	-3.631	-8.290
LEVEL	10.4772	-6.964	-4.453	-7.755	-12.011
LEVEL	15.7032	-6.419	-3.514	-7.682	-9.745
LEVEL	19.8040	-5.411	-3.476	-6.701	-7.731
LEVEL	24.0368	-5.924	-4.200	-6.870	-7.007
LEVEL	32.2002	-2.053	-3.336	-4.389	-4.641

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	.967	1.103	19.902	1.174	1.110	1.113	1.062	1.122	1.038	1.242
LEVEL	0.2652	.980	.951	18.118	1.185	1.182	1.105	1.155	1.110	1.161	1.353
LEVEL	0.5064	.991	1.070	21.514	1.190	1.201	1.111	1.218	1.154	1.165	1.425
LEVEL	1.1646	.937	1.091	17.392	1.221	1.306	1.125	1.398	1.088	1.080	1.409
LEVEL	1.6806	.976	1.042	19.151	1.165	1.206	1.237	1.331	1.284	1.149	1.283
LEVEL	3.7654	1.032	.995	24.031	1.317	1.384	1.296	1.900	1.333	1.319	1.418
LEVEL	5.2058	1.022	1.068	20.890	1.417	1.395	1.550	1.753	1.405	1.342	1.486
LEVEL	7.6870	1.111	1.102	21.414	1.576	1.473	1.534	1.519	1.396	1.623	1.589
LEVEL	10.4772	1.068	1.108	17.279	1.823	1.545	1.672	1.533	1.649	1.729	1.671
LEVEL	15.7032	1.067	.987	22.686	1.704	1.640	1.821	1.908	1.841	1.845	1.749
LEVEL	19.8040	.934	1.036	19.118	2.082	1.903	2.038	2.017	1.987	1.929	2.030
LEVEL	24.0368	.997	.954	21.020	2.196	2.034	2.254	2.315	2.166	2.192	2.098
LEVEL	32.2002	1.016	1.011	17.989	2.300	2.282	2.394	2.331	2.377	2.389	2.451
LEVEL	35.9292	.978	1.064	19.533	2.371	2.397	2.395	2.420	2.475	2.465	2.493

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	1.151	.966	2.067	1.440	2.601	1.540	1.345	1.394	1.737	1.607
LEVEL	0.2652	1.140	.949	1.589	1.540	2.440	1.876	1.189	1.344	2.096	1.482
LEVEL	0.5064	1.220	1.004	2.177	1.313	3.077	1.938	1.301	1.257	2.530	1.578
LEVEL	1.1646	1.246	1.017	1.836	1.422	1.885	1.699	1.329	1.362	2.557	1.608
LEVEL	1.6806	1.280	1.187	1.929	1.429	2.233	1.903	1.400	1.370	2.176	1.721
LEVEL	3.7654	1.501	1.213	1.913	1.384	2.684	1.992	1.358	1.524	2.311	1.872
LEVEL	5.2058	1.458	1.361	1.808	1.673	4.478	2.025	1.449	1.697	2.914	1.918
LEVEL	7.6870	1.563	1.415	2.046	1.654	1.870	2.307	1.788	1.711	2.783	1.916
LEVEL	10.4772	1.824	1.621	1.973	1.945	2.874	3.168	1.893	1.909	2.788	2.231
LEVEL	15.7032	1.733	1.704	2.308	2.185	3.046	2.580	1.942	2.165	2.824	2.240
LEVEL	19.8040	1.958	1.725	2.625	2.530	3.165	2.637	2.036	2.204	2.999	2.482
LEVEL	24.0368	2.036	2.097	2.614	2.380	3.128	2.721	2.421	2.366	3.573	2.469
LEVEL	32.2002	2.427	2.247	2.876	2.613	3.819	3.082	2.653	2.409	3.377	2.839
LEVEL	35.9292	2.515	2.285	2.971	2.885	3.274	3.052	2.943	2.907	3.328	2.943

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1.326	1.937	1.099	1.024
LEVEL	0.2652	1.265	1.796	1.033	1.110
LEVEL	0.5064	1.379	1.714	1.077	1.125
LEVEL	1.1646	1.455	1.558	1.099	1.097
LEVEL	1.6806	1.414	2.395	1.033	1.042
LEVEL	3.7654	1.465	1.896	1.151	1.085
LEVEL	5.2058	1.687	1.754	1.089	1.112
LEVEL	7.6870	1.704	3.328	1.152	1.109
LEVEL	10.4772	1.793	2.220	1.110	1.133
LEVEL	15.7032	2.023	2.614	1.114	1.076
LEVEL	19.8040	2.304	3.207	1.057	1.048
LEVEL	24.0368	2.389	2.913	1.185	1.085
LEVEL	32.2002	2.124	3.107	1.102	1.159
LEVEL	35.9292	2.837	3.018	1.191	1.115

TAPE: FA30

FILE: 31

CHIP: 3453-11-4

DIRECTION: R

TDI-1

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	312.371	249.277	1638.328	313.000	278.055	271.000	271.031	282.098	276.148	276.121
LEVEL	0.7732	312.586	249.727	1647.953	331.762	293.891	285.742	285.875	297.141	291.598	291.578
LEVEL	1.2712	312.539	249.684	1663.469	345.074	307.984	298.539	299.195	311.578	305.422	305.531
LEVEL	2.9234	312.934	249.875	1705.574	379.691	346.809	334.770	335.734	350.469	343.539	343.172
LEVEL	4.2186	313.453	250.410	1729.582	409.402	376.594	362.219	363.926	379.410	372.590	371.902
LEVEL	9.4512	314.367	251.262	1852.812	534.148	497.605	476.562	479.469	500.086	492.262	490.461
LEVEL	13.0666	314.707	251.730	1932.543	614.234	579.527	554.352	557.844	581.508	572.430	570.395
LEVEL	19.2944	316.195	252.996	2069.379	750.945	722.629	690.777	695.742	719.801	713.117	709.945
LEVEL	26.1490	317.281	254.402	2241.023	908.695	882.754	844.676	852.672	873.918	870.031	866.230
LEVEL	39.4152	319.621	256.500	2515.980	1205.480	1181.809	1132.855	1142.414	1169.816	1164.434	1159.680
LEVEL	49.7080	321.168	257.996	2748.105	1436.262	1414.465	1358.789	1369.477	1400.609	1394.012	1388.539
LEVEL	60.3326	322.914	259.906	2980.797	1674.086	1654.855	1592.215	1603.656	1639.289	1630.879	1624.402
LEVEL	80.4114	326.242	263.441	3424.926	2131.348	2116.832	2043.129	2055.605	2098.207	2087.609	2079.246
LEVEL	90.1826	327.465	264.867	3628.156	2336.180	2382.793	2245.148	2258.148	2300.555	2292.133	2282.270

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	288.832	297.734	1156.738	1161.176	1197.473	1181.148	1165.352	1163.609	1150.523	1130.066
LEVEL	0.7732	305.113	311.324	1174.848	1177.539	1212.090	1197.043	1181.402	1181.949	1166.793	1146.457
LEVEL	1.2712	318.430	325.773	1191.328	1191.426	1225.652	1210.937	1196.016	1193.625	1180.711	1160.586
LEVEL	2.9234	356.102	357.953	1236.488	1230.012	1265.488	1250.289	1236.156	1232.824	1220.418	1200.809
LEVEL	4.2186	385.723	385.414	1271.281	1260.801	1295.844	1281.027	1266.316	1261.531	1252.340	1231.348
LEVEL	9.4512	502.516	499.672	1414.586	1384.754	1415.555	1404.992	1392.035	1387.156	1372.496	1357.794
LEVEL	13.0666	580.879	578.043	1511.180	1468.453	1498.789	1490.086	1477.051	1471.895	1458.824	1442.727
LEVEL	19.2944	721.543	711.945	1678.066	1614.074	1642.078	1635.535	1624.332	1616.371	1607.105	1590.602
LEVEL	26.1490	877.953	861.770	1866.266	1778.508	1808.617	1800.660	1790.187	1780.320	1774.855	1757.316
LEVEL	39.4152	1168.738	1144.641	2215.523	2084.230	2107.293	2107.168	2098.246	2086.875	2083.137	2067.937
LEVEL	49.7080	1397.285	1362.922	2488.992	2323.871	2349.078	2348.875	2341.465	2328.230	2327.844	2311.039
LEVEL	60.3326	1632.734	1590.266	2769.059	2570.234	2592.953	2595.852	2589.539	2576.379	2577.172	2560.930
LEVEL	80.4114	2085.840	2026.609	3309.875	3046.312	3043.711	3074.422	3069.727	3053.746	3059.250	3043.770
LEVEL	90.1826	2290.863	2221.859	3552.785	3259.449	3273.918	3290.750	3284.406	3267.906	3273.355	3259.266

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1134.641	1179.418	1082.980	1145.355
LEVEL	0.7732	1150.555	1196.887	1083.188	1145.730
LEVEL	1.2712	1164.488	1205.680	1083.098	1145.672
LEVEL	2.9234	1204.203	1244.543	1083.480	1145.871
LEVEL	4.2186	1235.082	1274.297	1084.172	1146.480
LEVEL	9.4512	1359.547	1405.422	1086.230	1147.762
LEVEL	13.0666	1444.105	1494.117	1087.293	1148.367
LEVEL	19.2944	1590.949	1639.395	1089.359	1149.992
LEVEL	26.1490	1756.172	1803.621	1091.160	1151.531
LEVEL	39.4152	2064.805	2105.312	1095.203	1155.082
LEVEL	49.7080	2308.430	2344.047	1099.039	1157.922
LEVEL	60.3326	2557.484	2591.723	1101.898	1160.285
LEVEL	80.4114	3037.668	3068.266	1108.848	1165.437
LEVEL	90.1826	3253.051	3284.797	1110.895	1167.324

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT		6	5	16	15
LEVEL	0.7732	+2.19	+2.26	+2.12	-0.30
LEVEL	1.2712	-0.16	-1.03	-0.80	-0.36
LEVEL	2.9234	-0.29	-2.94	-2.11	-1.00
LEVEL	4.2186	+ .06	-2.89	-1.84	+0.51
LEVEL	9.4512	-0.19	-6.45	-4.60	-3.01
LEVEL	13.0666	+1.10	-6.95	-4.67	-3.39
LEVEL	19.2944	+0.43	-5.86	-5.61	-2.55
LEVEL	26.1490	-5.46	-6.57	-10.40	-7.39
LEVEL	39.4152	-2.89	-5.53	-6.74	-3.56
LEVEL	49.7080	-3.16	-5.95	-8.10	-4.75
LEVEL	60.3326	-3.23	-6.83	-6.53	-4.98
LEVEL	80.4114	-12.76	-16.35	-14.92	-13.84

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	2.138	2.268	49.216	2.449	2.397	2.267	2.270	2.267	2.414	2.280
LEVEL 0.7732	2.212	2.339	35.494	2.642	2.395	2.305	2.438	2.329	2.346	2.281
LEVEL 1.2712	2.199	2.183	37.176	2.509	2.336	2.314	2.287	2.541	2.274	2.270
LEVEL 2.9234	2.056	2.193	42.818	2.421	2.419	2.508	2.383	2.365	2.240	2.552
LEVEL 4.2186	2.276	2.373	43.109	2.657	2.622	2.511	2.615	2.538	2.551	2.519
LEVEL 9.4512	2.212	2.346	42.450	2.629	2.817	2.671	2.754	2.841	2.659	2.864
LEVEL 13.0666	2.215	2.248	35.864	3.046	2.925	2.829	2.933	3.059	2.852	2.983
LEVEL 19.2944	2.232	2.152	34.377	3.250	3.161	3.221	3.070	2.948	3.149	3.042
LEVEL 26.1490	2.210	2.238	43.294	3.418	3.386	3.324	3.202	3.405	3.351	3.285
LEVEL 39.4152	2.144	2.101	31.994	3.735	3.693	3.700	3.773	3.778	3.886	3.747
LEVEL 49.7080	2.201	2.281	32.721	4.365	3.911	3.899	4.138	4.248	4.117	4.150
LEVEL 60.3326	2.138	2.333	34.448	4.720	4.189	4.089	4.190	4.472	4.330	4.562
LEVEL 80.4114	2.102	2.255	38.662	4.508	4.701	4.759	5.008	4.711	4.612	4.909
LEVEL 90.1826	2.015	2.142	33.809	5.023	4.883	4.805	5.020	4.474	4.855	5.010

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	2.401	2.153	3.264	3.524	3.559	3.743	3.595	3.421	3.798	3.526
LEVEL 0.7732	2.355	2.292	3.536	3.606	4.160	3.564	3.900	3.629	3.878	3.949
LEVEL 1.2712	2.274	2.346	3.716	3.641	3.700	3.731	3.349	3.747	4.059	3.642
LEVEL 2.9234	2.271	2.338	3.506	3.514	3.577	3.437	3.660	3.733	3.804	3.580
LEVEL 4.2186	2.616	2.552	3.664	3.923	3.701	3.603	4.253	3.914	4.310	3.580
LEVEL 9.4512	2.916	2.802	3.648	3.949	4.073	4.110	4.071	4.104	4.141	4.037
LEVEL 13.0666	2.961	2.747	4.054	4.132	4.350	4.158	4.266	4.286	4.029	3.740
LEVEL 19.2944	3.033	3.316	4.213	3.999	4.360	4.212	4.362	4.543	4.349	4.317
LEVEL 26.1490	3.415	3.370	4.483	4.089	4.724	4.794	4.597	4.689	4.637	4.504
LEVEL 39.4152	3.925	3.881	4.537	4.519	4.660	4.829	4.425	4.562	4.824	4.991
LEVEL 49.7080	3.927	4.087	5.011	5.151	5.320	4.635	5.271	5.063	5.515	5.148
LEVEL 60.3326	4.371	4.494	5.376	5.653	5.475	5.539	5.224	5.399	5.619	4.842
LEVEL 80.4114	4.937	4.612	5.840	5.526	5.968	5.235	5.210	5.958	5.809	5.333
LEVEL 90.1826	4.961	4.796	5.999	5.571	5.611	5.838	5.255	5.811	5.692	5.953

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	3.475	4.285	3.569	3.793
LEVEL	0.7732	3.788	5.494	3.772	3.356
LEVEL	1.2712	3.900	4.120	3.735	3.494
LEVEL	2.9234	3.737	4.777	3.462	3.565
LEVEL	4.2186	3.668	5.241	3.816	3.491
LEVEL	9.4512	4.035	6.156	3.704	3.602
LEVEL	13.0666	4.269	5.111	3.774	3.537
LEVEL	19.2944	4.163	4.557	3.387	3.578
LEVEL	26.1490	4.637	6.193	3.576	3.644
LEVEL	39.4152	4.806	5.070	3.495	3.435
LEVEL	49.7080	5.291	5.712	3.561	3.708
LEVEL	60.3326	4.970	5.551	3.499	3.673
LEVEL	80.4114	5.591	5.612	3.790	3.462
LEVEL	90.1826	5.683	6.205	3.324	3.365

TAPE: FA30

FILE: 35

CHIP: 3453-11-4

DIRECTION: R

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 1	312.723	251.734	1813.676	353.969	359.320	331.473	356.570	331.461	323.555	346.328
LEVEL 2	313.695	251.516	1758.094	332.996	314.602	299.586	325.293	302.309	300.922	310.059
LEVEL 3	314.590	251.422	1657.336	317.035	281.066	274.191	274.137	286.496	278.887	279.316
LEVEL 4	315.180	252.312	255.684	258.648	254.566	254.187	253.918	255.227	254.883	254.707
LEVEL 5	757.539	732.059	740.113	740.855	740.418	740.953	738.469	740.723	740.258	738.898

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 1	342.906	332.707	1266.797	1228.449	1276.270	1296.203	1210.520	1196.312	1238.504	1176.652
LEVEL 2	323.797	318.840	1213.684	1207.055	1247.426	1208.988	1194.555	1180.195	1212.066	1164.695
LEVEL 3	293.277	303.598	1158.617	1163.656	1201.199	1184.016	1167.656	1165.734	1151.238	1131.117
LEVEL 4	254.945	255.211	1091.426	1091.039	1090.391	1089.121	1087.855	1084.707	1084.848	1085.492
LEVEL 5	737.766	734.484	2054.871	2055.859	2054.922	2053.523	2050.277	2046.289	2047.051	2048.250

ELEMENT	12	11	2A	2B
LEVEL 1	1209.934	1267.531	1084.602	1144.910
LEVEL 2	1151.684	1204.512	1084.094	1146.426
LEVEL 3	1137.176	1176.414	1083.762	1146.348
LEVEL 4	1090.793	1088.539	1085.980	1152.629
LEVEL 5	2050.687	2051.875	2047.965	2075.684

TAPE: FA30

FILE: 34

CHIP: 3453-11-4

DIRECTION: F

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 1	349.945	288.961	1824.422	393.094	388.484	361.816	392.898	371.187	363.320	383.016
LEVEL 2	349.516	287.441	460.660	340.445	368.656	348.543	374.410	341.391	341.117	366.289
LEVEL 3	348.750	288.980	387.469	319.469	337.914	326.215	325.113	322.703	318.090	340.617
LEVEL 4	347.648	289.219	300.102	294.504	292.875	295.211	293.305	286.875	284.004	290.992
LEVEL 5	981.254	945.555	973.996	972.328	968.621	971.914	962.353	965.543	958.289	958.582

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 1	388.406	379.344	780.695	728.582	759.629	783.840	709.922	708.184	759.820	706.047
LEVEL 2	357.062	341.648	758.652	723.660	721.762	768.543	701.652	699.051	754.641	704.859
LEVEL 3	331.414	322.152	696.824	675.941	677.301	744.172	672.344	682.203	693.344	671.098
LEVEL 4	290.359	285.113	602.527	612.176	618.484	616.055	621.387	630.746	629.758	623.391
LEVEL 5	960.590	957.531	1224.137	1236.141	1247.676	1255.437	1263.053	1256.238	1257.848	1246.844

ELEMENT	12	11	2A	2B
LEVEL 1	746.457	813.758	605.414	670.297
LEVEL 2	732.785	749.652	607.187	669.141
LEVEL 3	712.969	726.453	609.035	668.398
LEVEL 4	621.676	625.246	610.469	668.156
LEVEL 5	1249.875	1257.535	1216.395	1245.875

TAPE: FA30

FILE: 33

CHIP: 3453-11-4

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	346.078	284.855	1819.645	390.066	382.555	357.645	389.383	368.520	358.813	379.285
LEVEL	14.057	346.867	286.008	1949.582	507.148	500.734	475.152	508.719	486.434	477.137	494.316
LEVEL	2.957	346.832	286.719	1960.793	514.988	507.434	482.691	513.422	492.184	485.094	503.586
LEVEL	3.192	346.934	286.836	1987.199	540.414	533.535	506.375	537.449	517.562	510.723	526.824
LEVEL	2.664	347.062	286.691	1965.902	535.465	528.512	502.574	536.031	512.277	505.547	520.987
LEVEL	2.761	347.129	286.984	1999.375	554.465	546.719	520.672	550.344	530.895	524.305	537.316
LEVEL	2.156	347.227	286.898	1962.473	521.176	514.520	489.253	519.422	498.645	493.625	506.262
LEVEL	2.131	347.359	286.891	1963.426	526.641	521.059	495.555	524.633	506.344	503.016	515.523
LEVEL	2.119	347.711	287.254	1985.316	544.570	536.691	510.582	537.323	518.109	511.598	524.930
LEVEL	1.683	347.559	287.062	1963.844	518.184	512.180	487.777	518.152	496.145	491.191	504.934
LEVEL	2.037	348.367	288.047	2015.574	562.434	556.426	532.219	558.012	539.527	532.449	545.230
LEVEL	2.285	348.781	288.551	1943.113	581.297	574.781	550.191	577.727	556.699	548.441	560.371
LEVEL	2.553	349.297	288.809	1906.840	561.336	556.035	532.402	559.937	537.492	531.695	542.191
LEVEL	3.997	350.043	289.625	1922.906	567.301	559.348	535.922	562.043	539.383	531.883	546.746
LEVEL	6.473	351.656	291.203	1966.188	581.516	575.252	550.047	575.676	550.410	541.930	552.625
LEVEL	16.149	362.926	308.812	2074.961	637.254	633.863	607.684	632.645	606.887	598.762	610.367
LEVEL	49.162	392.488	332.477	2195.930	745.664	746.777	721.957	748.863	720.078	712.922	724.535

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	387.207	374.863	772.516	724.691	760.293	800.586	703.004	701.320	751.375	705.301
LEVEL	14.057	500.793	485.809	926.098	857.758	889.250	915.711	837.418	837.312	889.395	836.219
LEVEL	2.957	507.770	494.633	932.914	867.215	890.234	927.207	847.449	844.883	892.113	845.250
LEVEL	3.192	536.906	519.621	966.293	890.043	917.812	956.719	875.770	874.125	920.824	872.539
LEVEL	2.664	527.391	512.523	950.578	883.473	909.914	950.195	869.230	869.125	915.613	866.482
LEVEL	2.761	547.441	531.891	976.648	904.121	933.469	972.609	888.801	892.379	935.500	888.555
LEVEL	2.156	515.914	502.344	937.863	870.176	903.953	952.645	854.941	855.219	901.422	853.875
LEVEL	2.131	524.117	510.809	945.691	877.004	904.496	945.301	859.277	859.195	903.895	857.484
LEVEL	2.119	528.781	516.207	957.023	895.410	921.859	963.008	879.879	877.777	931.672	874.023
LEVEL	1.683	511.512	500.086	935.176	868.469	895.398	935.434	851.323	850.578	896.293	843.484
LEVEL	2.037	551.219	537.559	983.969	921.500	944.961	987.590	904.004	903.461	954.340	892.898
LEVEL	2.285	569.332	553.098	1009.332	941.172	965.070	1008.535	927.508	925.906	971.402	913.609
LEVEL	2.553	549.980	533.719	976.250	914.691	923.492	978.746	901.556	900.832	951.922	889.113
LEVEL	3.997	560.359	546.379	990.715	920.750	943.176	982.445	909.262	908.887	952.543	890.762
LEVEL	6.473	566.582	561.066	1020.473	941.594	961.957	998.410	931.730	929.988	971.965	908.281
LEVEL	16.149	625.383	667.363	1102.836	978.750	996.461	1035.641	976.277	977.754	1022.055	956.016
LEVEL	49.162	746.117	849.496	1269.637	1082.918	1094.672	1143.047	1084.344	1089.918	1135.371	1063.910

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	741.887	808.613	600.070	665.027
LEVEL	14.057	873.719	945.422	602.406	666.195
LEVEL	2.957	882.832	956.930	602.926	666.148
LEVEL	3.192	910.715	986.352	603.055	666.238
LEVEL	2.664	905.004	977.480	603.527	666.441
LEVEL	2.761	927.406	1001.105	603.875	666.629
LEVEL	2.156	891.484	968.426	603.367	666.691
LEVEL	2.131	897.137	968.801	603.637	666.938
LEVEL	2.119	914.402	982.133	604.242	667.187
LEVEL	1.683	885.691	963.410	604.137	667.352
LEVEL	2.037	937.289	1012.465	605.547	668.238
LEVEL	2.285	956.633	1024.727	606.098	669.074
LEVEL	2.553	931.773	999.473	606.852	669.578
LEVEL	3.997	933.488	1000.012	607.645	670.348
LEVEL	6.473	950.332	1031.379	609.793	672.367
LEVEL	16.149	997.453	1079.531	629.363	691.535
LEVEL	49.162	1108.984	1197.945	655.543	716.875

RELATIVE SPECTRAL RESPONSE

ELEMENT		6	5	16	15
WAVELENGTH (μm)	376	8.49	8.39	9.56	9.67
	430	41.95	41.82	48.85	48.55
	473	46.39	46.69	54.44	54.14
	528	55.05	53.96	62.40	62.99
	571	58.30	58.81	67.29	69.20
	624	60.31	60.35	70.47	71.38
	678	63.47	64.68	73.33	74.08
	719	69.82	70.59	83.47	83.27
	774	76.51	75.83	88.13	88.69
	830	82.78	83.95	98.67	99.23
	876	82.43	81.92	98.25	98.29
	924	66.81	66.19	77.78	78.15
	981	43.20	42.75	51.60	51.93
	1019	28.78	28.10	35.34	35.33
	1081	15.06	14.76	16.92	17.12
	1130	7.31	7.15	7.76	7.90

TAPE: FA30

FILE: 17

CHIP: 3453-11-7

DIRECTION: F

TDI-1

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	321.125	262.426	352.465	342.078	344.652	380.746	305.336	284.078	295.707	286.496
LEVEL	0.7732	321.785	262.508	368.207	359.820	360.945	398.270	319.906	299.840	310.117	301.895
LEVEL	1.2712	322.406	263.523	385.059	375.715	377.555	412.391	335.523	314.371	327.336	316.176
LEVEL	2.9234	323.664	266.348	427.992	418.723	416.340	453.559	373.980	353.195	364.453	354.570
LEVEL	4.2186	325.160	268.348	459.055	450.898	446.617	480.957	402.867	382.859	393.625	382.844
LEVEL	9.4512	330.418	279.539	587.867	585.281	580.359	604.762	523.113	504.746	511.148	497.500
LEVEL	13.0666	333.793	287.750	673.535	675.125	674.254	692.332	605.180	588.254	591.656	575.703
LEVEL	19.2944	338.293	299.984	822.105	830.020	836.836	842.926	750.344	732.727	738.246	713.316
LEVEL	26.1490	341.371	310.520	988.062	1001.605	1015.566	1013.066	912.441	893.664	900.914	869.371
LEVEL	39.4152	345.160	324.445	1299.578	1317.961	1344.707	1331.738	1222.105	1194.996	1205.047	1167.930
LEVEL	49.7080	348.129	332.121	1542.668	1568.094	1597.891	1582.359	1463.164	1432.594	1447.477	1406.102
LEVEL	60.3326	350.320	338.395	1795.852	1823.824	1859.406	1838.187	1713.348	1679.414	1695.402	1656.016
LEVEL	80.4114	354.625	348.402	2277.684	2312.977	2357.574	2326.652	2183.363	2151.383	2170.980	2136.383
LEVEL	90.1826	356.145	352.559	2494.121	2531.246	2578.754	2544.609	2403.488	2363.090	2384.457	2352.980

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	282.914	273.387	2237.813	2307.047	2260.988	2245.152	2231.922	2126.492	2086.160	2055.918
LEVEL	0.7732	298.246	288.594	2256.137	2324.320	2279.258	2261.676	2243.995	2142.230	2102.199	2073.062
LEVEL	1.2712	312.867	302.152	2275.102	2338.789	2292.402	2277.145	2263.434	2156.117	2112.687	2087.918
LEVEL	2.9234	352.617	338.508	2321.434	2380.809	2332.523	2316.305	2302.031	2197.031	2154.230	2126.652
LEVEL	4.2186	382.148	367.367	2354.918	2414.312	2364.465	2348.082	2335.844	2227.379	2191.785	2157.629
LEVEL	9.4512	500.762	483.441	2497.707	2547.289	2494.574	2476.746	2459.836	2351.289	2311.988	2281.066
LEVEL	13.0666	578.941	561.324	2596.070	2631.195	2580.438	2562.395	2543.270	2436.520	2400.445	2366.926
LEVEL	19.2944	716.414	695.566	2763.449	2790.957	2733.527	2710.762	2687.852	2582.676	2550.078	2519.223
LEVEL	26.1490	875.246	842.332	2946.473	2955.383	2895.992	2871.945	2851.695	2749.633	2722.437	2692.672
LEVEL	39.4152	1176.473	1113.887	3298.824	3252.859	3189.980	3176.105	3169.859	3073.086	3047.695	3024.336
LEVEL	49.7080	1410.082	1328.863	3577.297	3494.672	3424.242	3421.000	3423.426	3330.828	3305.465	3281.367
LEVEL	60.3326	1651.133	1553.746	3870.371	3737.863	3675.645	3678.090	3697.945	3597.438	3571.277	3544.363
LEVEL	80.4114	2112.746	1990.070	4094.437	4094.816	4086.164	4084.957	4094.613	4045.133	4026.375	4011.598
LEVEL	90.1826	2321.801	2186.789	4094.258	4094.320	4094.539	4094.285	4094.461	4094.262	4094.395	4094.434

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	2014.016	2023.781	1848.047	2063.988
LEVEL	0.7732	2031.398	2032.672	1848.641	2064.645
LEVEL	1.2712	2045.695	2045.453	1848.902	2064.664
LEVEL	2.9234	2086.324	2082.246	1851.414	2065.816
LEVEL	4.2186	2118.305	2113.609	1853.590	2067.359
LEVEL	9.4512	2249.711	2252.168	1864.859	2072.250
LEVEL	13.0666	2340.383	2341.555	1874.012	2076.434
LEVEL	19.2944	2497.383	2500.031	1887.094	2081.051
LEVEL	26.1490	2674.574	2674.363	1898.586	2084.016
LEVEL	39.4152	3004.836	3000.871	1914.637	2086.930
LEVEL	49.7080	3261.082	3253.422	1924.758	2090.121
LEVEL	60.3326	3525.375	3515.664	1932.734	2092.195
LEVEL	80.4114	4004.437	3996.187	1945.715	2095.422
LEVEL	90.1826	4094.227	4094.414	1950.480	2096.254

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT	10	9	8	7	6	5	4	3	2	1
LEVEL 0.7732	-2.68	-1.08	-2.92	-1.09	-3.47	-2.12	-3.55	-2.37	-2.20	-1.25
LEVEL 1.2712	2.40	2.77	1.40	1.13	1.60	.98	2.18	.54	1.20	1.79
LEVEL 2.9234	6.14	5.72	-.70	2.70	.66	1.76	1.07	1.12	3.64	3.13
LEVEL 4.2186	6.36	6.37	-2.59	-1.06	-.66	1.48	.16	-.36	3.81	4.43
LEVEL 9.4512	10.96	13.78	1.57	-2.76	-2.11	2.75	-3.46	-5.56	4.17	9.53
LEVEL 13.0666	10.74	15.84	5.88	-1.96	-3.18	2.93	-6.71	-10.23	.59	10.69
LEVEL 19.2944	11.54	19.68	14.31	-.67	-3.79	3.95	-4.24	-15.20	-2.62	12.90
LEVEL 26.1490	14.52	24.67	23.02	4.80	-1.36	6.67	-.53	-16.41	1.05	14.06
LEVEL 39.4152	11.00	19.00	23.53	5.17	-.33	2.18	-3.65	-21.83	2.36	4.15
LEVEL 49.7080	9.72	19.35	21.80	8.89	1.33	2.56	.45	-19.44	3.33	.81
LEVEL 60.3326	10.62	17.19	20.14	9.82	4.35	4.48	2.32	-12.96	4.20	.29
LEVEL 80.4114	5.87	8.97	10.72	6.65	2.66	4.09	3.34	-2.10	2.58	1.89

ELEMENT	20	19	18	17	16	15	14	13	12	11
LEVEL 0.7732	-2.66	-1.12	.08	-1.90	-1.77	-3.17	-3.05	-1.99	-2.05	-10.29
LEVEL 1.2712	2.88	1.59	1.60	1.79	.61	-1.38	-4.77	.63	-.17	-9.77
LEVEL 2.9234	4.56	4.47	3.02	1.75	-.49	-.70	-3.85	-1.35	-.89	-13.79
LEVEL 4.2186	2.90	7.17	4.51	2.69	1.37	-2.01	1.73	-2.41	-1.44	-14.54
LEVEL 9.4512	4.15	16.10	11.98	7.12	-1.74	-5.63	-6.82	-8.02	-1.06	-5.32
LEVEL 13.0666	4.66	14.24	13.05	6.88	-6.18	-8.57	-7.38	-11.38	-.98	-5.36
LEVEL 19.2944	3.66	26.43	20.23	7.45	-12.80	-14.12	-10.92	-12.60	.14	-.75
LEVEL 26.1490	.97	28.10	21.77	5.64	-15.72	-14.49	-7.50	-8.46	5.41	3.88
LEVEL 39.4152	-5.64	16.97	4.71	-5.28	-19.91	-14.47	-8.79	-4.08	3.35	2.35
LEVEL 49.7080	-5.61	8.75	-2.30	-4.77	-11.38	-7.60	-4.31	-.91	1.83	.45

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	1.521	1.600	1.874	1.734	1.930	2.173	2.043	1.676	1.653	1.671
LEVEL 0.7732	1.568	1.664	1.881	1.851	1.859	2.016	2.127	1.671	1.854	1.643
LEVEL 1.2712	1.640	1.599	2.000	1.722	2.040	2.104	1.933	1.731	1.714	1.725
LEVEL 2.9234	1.578	1.534	2.033	1.936	2.059	3.994	2.193	1.955	1.825	1.816
LEVEL 4.2186	1.660	1.628	2.021	1.946	1.955	2.526	2.167	1.921	1.897	1.708
LEVEL 9.4512	1.594	1.554	2.076	2.254	2.218	2.368	2.235	2.131	2.148	1.974
LEVEL 13.0666	1.690	1.572	2.401	2.393	2.555	2.476	2.340	2.333	2.506	1.990
LEVEL 19.2944	1.556	1.616	2.565	2.632	2.862	2.585	2.597	2.472	2.519	2.324
LEVEL 26.1490	1.633	1.778	2.870	2.970	3.067	2.932	2.783	2.554	2.802	2.651
LEVEL 39.4152	1.789	1.632	3.200	3.181	3.132	3.414	3.152	3.191	3.336	3.250
LEVEL 49.7080	1.711	1.812	3.760	3.709	3.755	3.767	3.668	3.291	3.573	3.388
LEVEL 60.3326	1.616	1.642	3.559	3.857	3.692	4.274	3.555	3.667	3.863	3.584
LEVEL 80.4114	1.597	1.613	4.423	4.389	4.064	4.450	4.319	4.269	4.281	3.854
LEVEL 90.1826	1.611	1.772	4.164	4.347	4.619	4.767	4.304	4.303	4.185	4.458

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	1.650	1.504	6.520	5.268	6.085	5.753	5.763	6.105	5.523	5.463
LEVEL 0.7732	1.635	1.710	6.074	6.057	5.981	5.773	6.165	5.578	5.863	5.340
LEVEL 1.2712	1.701	1.629	6.001	5.446	5.791	5.647	5.816	5.674	5.215	5.324
LEVEL 2.9234	1.725	1.851	5.994	6.264	5.860	6.036	5.689	5.924	6.190	5.869
LEVEL 4.2186	1.902	1.899	5.935	6.112	6.073	5.701	5.423	5.727	6.008	5.626
LEVEL 9.4512	2.057	2.034	6.667	6.306	6.175	5.598	5.395	5.930	6.076	5.975
LEVEL 13.0666	2.098	2.196	6.153	5.992	5.791	5.230	6.407	5.673	5.419	5.999
LEVEL 19.2944	2.284	2.472	6.642	5.697	5.592	5.790	5.776	5.687	5.799	5.951
LEVEL 26.1490	2.687	2.729	7.349	5.693	6.233	6.204	5.811	5.708	6.096	5.923
LEVEL 39.4152	3.111	2.891	6.655	5.941	5.884	6.114	5.990	5.500	5.668	6.308
LEVEL 49.7080	2.887	3.208	6.421	5.865	6.380	6.626	5.952	6.475	6.595	6.179
LEVEL 60.3326	3.448	3.529	6.438	6.260	6.472	6.711	6.580	6.232	6.549	6.259
LEVEL 80.4114	3.877	3.982	5.520	5.453	3.080	3.251	5.918	3.655	4.026	4.140
LEVEL 90.1826	4.055	4.176	5.635	5.492	5.499	5.452	5.522	5.440	5.490	5.520

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	5.676	5.882	4.776	5.814
LEVEL	0.7732	5.402	5.518	5.433	5.598
LEVEL	1.2712	5.076	5.027	5.325	5.547
LEVEL	2.9234	5.573	5.732	5.165	5.706
LEVEL	4.2186	5.731	5.633	5.399	5.800
LEVEL	9.4512	5.465	5.758	5.005	5.428
LEVEL	13.0666	6.017	5.335	5.137	5.465
LEVEL	19.2944	5.869	6.037	5.667	5.492
LEVEL	26.1490	6.063	6.094	5.192	5.175
LEVEL	39.4152	6.428	6.595	5.129	5.564
LEVEL	49.7080	5.969	6.176	5.120	5.606
LEVEL	60.3326	5.864	6.545	5.265	5.423
LEVEL	80.4114	4.097	4.540	5.514	5.559
LEVEL	90.1826	.419	.494	5.280	5.030

TAPE: FA30

FILE: 19

CHIP: 3453-11-7

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	169.090	136.301	217.988	224.141	225.691	249.531	222.113	202.348	179.953	163.172
LEVEL	0.2652	169.301	136.793	227.352	233.363	236.113	258.223	229.535	211.043	187.371	171.602
LEVEL	0.5064	169.535	137.395	235.562	241.187	243.664	266.234	239.156	218.664	195.070	179.559
LEVEL	1.1646	170.391	139.145	258.430	265.023	266.945	290.145	260.572	242.562	216.648	200.816
LEVEL	1.6806	171.121	140.547	275.492	283.629	285.184	304.133	275.637	257.910	232.824	216.988
LEVEL	3.7654	173.387	146.059	344.496	355.828	357.812	374.043	347.102	327.969	300.789	282.570
LEVEL	5.2058	174.840	149.820	391.172	404.199	408.770	423.270	393.289	375.094	347.785	327.430
LEVEL	7.6870	176.293	155.180	472.625	487.020	493.750	508.633	476.395	457.848	431.062	406.637
LEVEL	10.4772	177.199	159.898	565.629	580.980	588.191	601.875	571.000	551.328	524.578	496.598
LEVEL	15.7032	178.355	165.320	738.586	756.187	764.254	780.238	749.484	726.598	700.547	668.598
LEVEL	19.8040	178.812	168.195	874.469	890.699	900.961	915.293	884.509	862.168	837.570	804.898
LEVEL	24.0368	179.297	170.426	1017.168	1032.570	1042.277	1054.355	1028.332	1004.543	979.648	948.891
LEVEL	32.2002	179.992	174.113	1284.973	1302.613	1312.379	1320.855	1298.492	1274.605	1250.910	1222.391
LEVEL	35.9292	180.258	175.465	1402.172	1420.824	1432.758	1445.715	1418.418	1394.805	1371.176	1344.586

ALL LEVEL LIST OF
RESPONSE

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	189.457	173.809	1232.891	1360.602	1440.285	1311.285	1313.184	1145.023	1109.684	1172.980
LEVEL 0.2652	198.367	181.961	1243.125	1385.598	1446.941	1319.250	1324.230	1155.527	1120.602	1185.090
LEVEL 0.5064	206.820	189.906	1253.953	1393.680	1456.406	1330.957	1330.509	1161.754	1129.414	1190.316
LEVEL 1.1646	228.590	211.070	1279.563	1401.203	1481.406	1350.672	1349.805	1185.164	1153.191	1212.191
LEVEL 1.6806	245.367	227.531	1298.668	1416.426	1496.652	1369.848	1366.887	1205.473	1174.523	1227.902
LEVEL 3.7654	311.574	294.262	1377.645	1469.469	1567.168	1443.824	1438.320	1278.672	1245.281	1300.254
LEVEL 5.2058	355.937	339.035	1436.582	1556.555	1614.117	1493.602	1488.695	1329.277	1295.504	1352.199
LEVEL 7.6870	437.242	415.848	1532.773	1603.105	1695.961	1576.305	1574.910	1412.828	1383.824	1441.227
LEVEL 10.4772	528.945	500.129	1640.496	1718.297	1788.344	1674.730	1668.660	1509.363	1483.766	1542.949
LEVEL 15.7032	701.020	658.285	1845.551	1901.945	1961.281	1853.238	1852.566	1694.184	1670.621	1729.332
LEVEL 19.8040	834.016	783.027	2001.039	2035.020	2085.602	1987.801	1996.492	1837.641	1815.371	1880.926
LEVEL 24.0368	971.652	914.059	2175.566	2174.965	2230.633	2134.199	2147.062	1989.637	1965.062	2032.539
LEVEL 32.2002	1235.645	1166.375	2503.453	2449.086	2522.848	2420.719	2439.277	2274.961	2248.187	2318.238
LEVEL 35.9292	1353.695	1279.020	2645.820	2573.941	2649.344	2547.238	2565.258	2403.180	2377.758	2446.395

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1079.285	1099.164	966.855	1084.449
LEVEL	0.2652	1089.684	1108.973	967.953	1084.992
LEVEL	0.5064	1097.766	1119.285	968.129	1084.437
LEVEL	1.1646	1122.148	1139.937	969.598	1085.449
LEVEL	1.6806	1141.199	1159.586	971.645	1087.125
LEVEL	3.7654	1216.648	1235.031	978.340	1089.539
LEVEL	5.2058	1267.496	1284.512	982.684	1090.977
LEVEL	7.6870	1355.742	1374.355	989.070	1093.066
LEVEL	10.4772	1454.840	1472.598	994.016	1093.844
LEVEL	15.7032	1638.629	1655.758	1000.809	1094.859
LEVEL	19.8040	1782.281	1797.082	1004.238	1094.969
LEVEL	24.0368	1931.520	1945.828	1007.184	1094.812
LEVEL	32.2002	2216.648	2226.504	1012.035	1094.855
LEVEL	35.9292	2344.418	2356.820	1014.676	1094.730

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT		6	5	16	15
LEVEL	0.2652	-2.87	-1.56	0.27	-0.32
LEVEL	0.5064	0.18	-0.50	-0.24	-1.01
LEVEL	1.1646	-0.20	1.58	-3.98	-0.62
LEVEL	1.6806	-2.46	-0.24	-4.94	1.57
LEVEL	3.7654	-0.38	0.65	-6.19	1.79
LEVEL	5.2058	-2.17	-0.04	-6.06	1.95
LEVEL	7.6870	-1.61	0.43	-6.31	-1.31
LEVEL	10.4772	1.96	3.17	-7.91	-0.53
LEVEL	15.7032	4.47	3.03	-8.34	-0.78
LEVEL	19.8040	3.09	2.54	-7.39	-0.88
LEVEL	24.0368	6.39	4.44	-4.43	2.91
LEVEL	32.2002	4.25	3.58	3.09	2.38

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	.842	.777	1.637	1.241	1.104	1.968	1.194	.954	.857	1.022
LEVEL 0.2652	.920	.881	1.445	1.126	1.168	1.599	1.120	1.056	.928	1.028
LEVEL 0.5064	.945	.893	1.684	1.129	1.216	1.618	1.130	1.035	.988	.956
LEVEL 1.1646	.914	.915	1.387	1.120	1.090	1.430	1.250	1.038	1.026	.987
LEVEL 1.6806	.919	.911	1.654	1.217	1.445	1.371	1.583	1.118	1.076	1.012
LEVEL 3.7654	.905	.840	1.308	1.395	1.600	1.634	1.316	1.191	1.100	1.153
LEVEL 5.2058	.917	.894	1.547	1.321	1.484	1.807	1.393	1.313	1.232	1.146
LEVEL 7.6870	.856	.898	1.450	1.658	1.611	2.600	1.586	1.473	1.388	1.382
LEVEL 10.4772	.861	.961	1.990	1.743	1.851	1.940	1.778	1.496	1.657	1.526
LEVEL 15.7032	.883	.853	1.745	1.888	1.888	2.330	1.988	1.911	1.640	1.746
LEVEL 19.8040	.939	.882	2.316	1.958	2.063	2.290	2.382	1.932	1.961	1.897
LEVEL 24.0368	.853	.955	2.233	2.043	2.095	2.429	2.012	2.167	2.094	2.045
LEVEL 32.2002	.894	.990	2.271	2.426	2.391	3.254	2.328	2.298	2.420	2.185
LEVEL 35.9292	.935	.924	2.665	2.307	2.382	2.527	2.552	2.318	2.390	2.458

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	.977	.915	3.586	3.490	5.887	3.455	3.355	3.001	2.873	3.048
LEVEL	0.2652	1.016	.889	3.213	3.659	5.836	3.194	3.523	3.206	3.047	3.029
LEVEL	0.5064	1.013	.970	3.358	4.429	5.805	3.293	3.519	2.762	2.929	3.209
LEVEL	1.1646	.962	.996	3.294	3.959	5.343	2.932	3.535	3.122	2.903	3.667
LEVEL	1.6806	1.054	1.102	3.217	3.422	5.654	3.033	3.964	3.146	2.878	3.951
LEVEL	3.7654	1.212	1.236	3.425	4.442	6.028	2.969	3.365	2.924	2.831	3.966
LEVEL	5.2058	1.167	1.291	3.494	4.234	5.130	3.114	3.179	2.950	3.117	3.422
LEVEL	7.6870	1.342	1.193	3.240	3.284	6.135	3.339	3.450	2.975	3.245	3.280
LEVEL	10.4772	1.494	1.575	3.517	4.738	5.057	3.348	3.654	3.064	3.067	3.374
LEVEL	15.7032	1.768	1.765	3.564	4.052	4.786	3.623	3.767	3.049	3.267	4.307
LEVEL	19.8040	1.968	1.898	4.099	3.845	5.969	3.511	4.077	3.421	3.086	3.704
LEVEL	24.0368	1.992	2.039	3.810	3.347	6.183	3.550	3.944	3.127	3.502	3.458
LEVEL	32.2002	2.392	2.138	4.408	3.869	5.524	3.833	4.899	3.602	3.453	3.803
LEVEL	35.9292	2.445	2.320	4.873	3.756	6.145	3.383	4.069	3.421	3.689	3.571

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	2.932	2.910	2.828	3.037
LEVEL	0.2652	2.697	2.835	2.886	2.905
LEVEL	0.5064	2.828	2.904	2.713	2.903
LEVEL	1.1646	2.862	3.076	2.634	2.871
LEVEL	1.6806	3.000	2.973	2.547	2.969
LEVEL	3.7654	2.794	3.066	2.846	3.048
LEVEL	5.2058	2.920	2.957	2.709	2.852
LEVEL	7.6870	2.953	2.997	2.828	3.112
LEVEL	10.4772	3.030	3.307	2.643	2.954
LEVEL	15.7032	2.985	3.337	2.562	2.868
LEVEL	19.8040	3.413	3.139	2.654	2.864
LEVEL	24.0368	2.906	3.295	2.811	2.951
LEVEL	32.2002	3.172	3.539	2.693	2.755
LEVEL	35.9292	3.595	3.506	2.744	2.840

TAPE: FA30

FILE: 18

CHIP: 3453-11-7

DIRECTION: R

TDI-1

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	431.594	368.348	433.598	439.598	421.992	423.844	403.785	413.031	387.996	387.922
LEVEL	0.7732	431.840	368.668	444.680	453.746	436.480	440.848	417.785	427.105	402.023	401.660
LEVEL	1.2712	431.988	369.145	458.586	466.621	450.266	450.777	430.512	441.508	414.797	414.207
LEVEL	2.9234	432.973	369.973	494.598	501.992	485.203	486.176	465.395	476.383	449.805	448.922
LEVEL	4.2186	433.031	369.988	521.914	530.605	511.586	510.738	491.465	501.918	475.789	474.465
LEVEL	9.4512	434.426	372.027	633.141	640.180	621.234	622.594	600.988	611.187	584.895	582.078
LEVEL	13.0666	435.375	373.414	704.203	715.516	697.016	697.758	675.480	685.266	659.449	655.781
LEVEL	19.2944	436.930	375.598	837.250	847.133	826.617	826.996	804.699	814.723	788.984	783.945
LEVEL	26.1490	438.551	377.664	981.652	992.906	972.359	971.430	949.961	961.152	934.582	928.082
LEVEL	39.4152	442.078	381.480	1253.871	1258.371	1243.770	1245.750	1221.066	1233.250	1206.473	1197.344
LEVEL	49.7080	444.879	384.379	1471.695	1474.867	1457.461	1459.887	1434.238	1445.832	1419.867	1408.273
LEVEL	60.3326	447.410	387.203	1693.328	1696.598	1677.734	1677.664	1654.168	1667.363	1640.555	1626.656
LEVEL	80.4114	452.297	392.457	2112.824	2119.504	2100.008	2102.250	2074.793	2089.543	2061.543	2044.051
LEVEL	90.1826	454.672	394.734	2303.273	2312.844	2288.453	2290.910	2263.533	2279.312	2251.828	2232.441

ALL LEVEL LIST OF
RESPONSE

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	420.223	386.453	1056.602	1208.422	1093.195	1133.758	1096.785	1035.926	1043.375	1143.559
LEVEL 0.7732	435.344	399.602	1064.488	1218.664	1104.758	1138.687	1110.863	1051.031	1058.855	1156.031
LEVEL 1.2712	448.551	411.477	1086.934	1228.215	1121.687	1157.656	1124.547	1065.543	1073.859	1181.875
LEVEL 2.9234	483.348	444.488	1129.516	1274.129	1168.980	1199.531	1164.105	1106.613	1114.047	1224.113
LEVEL 4.2186	508.398	469.016	1160.437	1304.848	1185.867	1225.336	1195.324	1138.676	1144.660	1260.828
LEVEL 9.4512	615.859	572.199	1299.344	1414.789	1304.984	1344.668	1319.488	1265.734	1269.633	1370.586
LEVEL 13.0666	689.312	642.547	1390.484	1500.496	1387.063	1428.164	1402.781	1352.809	1355.910	1462.449
LEVEL 19.2944	815.496	764.613	1550.949	1635.883	1530.332	1570.406	1551.027	1504.277	1505.145	1606.637
LEVEL 26.1490	960.187	902.004	1732.848	1801.305	1687.348	1727.102	1716.578	1674.305	1673.801	1785.309
LEVEL 39.4152	1228.297	1159.359	2070.547	2108.434	1987.465	2033.434	2025.887	1991.121	1985.941	2090.980
LEVEL 49.7080	1439.195	1360.387	2332.641	2338.617	2217.711	2264.285	2270.223	2235.313	2230.879	2342.676
LEVEL 60.3326	1658.125	1569.781	2605.355	2582.379	2459.895	2507.008	2515.434	2490.234	2483.191	2593.809
LEVEL 80.4114	2076.793	1969.027	3126.832	3032.641	2931.344	2976.816	2993.242	2977.473	2970.121	3085.797
LEVEL 90.1826	2264.910	2147.984	3362.723	3250.973	3138.770	3184.465	3209.344	3196.102	3187.527	3300.285

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1046.219	1029.121	966.328	1033.020
LEVEL	0.7732	1060.984	1043.410	965.625	1031.996
LEVEL	1.2712	1075.426	1058.574	966.133	1032.273
LEVEL	2.9234	1115.773	1098.633	966.660	1033.066
LEVEL	4.2186	1147.453	1128.613	966.750	1032.609
LEVEL	9.4512	1274.215	1255.625	968.199	1033.852
LEVEL	13.0666	1360.441	1341.551	969.906	1036.344
LEVEL	19.2944	1511.367	1492.758	972.539	1037.484
LEVEL	26.1490	1681.488	1663.410	975.879	1040.859
LEVEL	39.4152	1996.633	1979.145	980.391	1044.637
LEVEL	49.7080	2240.855	2222.293	983.273	1046.656
LEVEL	60.3326	2496.508	2476.715	986.840	1049.262
LEVEL	80.4114	2982.852	2965.336	994.336	1056.031
LEVEL	90.1826	3200.773	3183.895	997.363	1058.668

DEVIATION FROM STRAIGHT LINE FIT

ELEMENT	6	5	16	15
LEVEL 0.7732	-1.89	-1.98	-4.09	-3.47
LEVEL 1.2712	0.50	2.16	-2.03	-0.84
LEVEL 2.9234	1.85	2.88	-1.13	0.70
LEVEL 4.2186	0.64	1.55	-0.33	1.65
LEVEL 9.4512	2.29	2.57	1.31	3.42
LEVEL 13.0666	2.20	1.81	0.11	3.87
LEVEL 19.2944	3.09	2.49	2.37	6.29
LEVEL 26.1490	6.82	6.90	7.15	11.93
LEVEL 39.4152	4.34	4.47	5.70	10.98
LEVEL 49.7080	5.30	4.11	8.99	8.70
LEVEL 60.3326	6.14	5.79	5.35	9.15
LEVEL 80.4114	4.21	3.95	3.18	5.60

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	1.541	1.557	1.825	1.845	1.710	1.821	1.546	1.706	1.573	1.811
LEVEL 0.7732	1.575	1.568	2.443	1.843	1.872	1.905	1.829	1.749	1.845	1.632
LEVEL 1.2712	1.598	1.591	2.835	1.977	1.795	2.027	1.795	1.952	1.717	1.832
LEVEL 2.9234	1.622	1.743	2.914	2.151	1.980	2.185	1.895	1.818	1.789	1.815
LEVEL 4.2186	1.596	1.558	2.657	2.245	1.885	2.282	1.864	1.880	1.947	1.746
LEVEL 9.4512	1.590	1.674	2.150	2.319	2.189	2.328	2.225	2.234	2.260	2.100
LEVEL 13.0666	1.536	1.729	3.260	2.313	2.403	2.622	2.475	2.353	2.112	2.142
LEVEL 19.2944	1.665	1.526	2.704	2.592	2.458	2.699	2.454	2.422	2.486	2.409
LEVEL 26.1490	1.568	1.566	3.608	2.834	2.861	2.710	2.893	2.784	2.737	2.729
LEVEL 39.4152	1.570	1.652	4.016	3.483	3.237	3.159	3.309	3.079	2.846	3.046
LEVEL 49.7080	1.735	1.704	3.388	3.505	3.639	3.733	3.359	3.261	3.248	3.115
LEVEL 60.3326	1.587	1.730	3.661	3.684	3.645	3.637	3.400	3.576	3.532	3.689
LEVEL 80.4114	1.471	1.586	4.265	4.019	4.334	4.478	4.172	3.960	4.070	4.029
LEVEL 90.1826	1.607	1.599	4.293	4.371	4.284	3.984	4.491	4.065	4.068	4.265

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	1.699	1.689	2.650	5.240	2.618	3.310	2.473	2.401	2.657	3.715
LEVEL 0.7732	1.786	1.523	2.827	4.758	2.740	3.289	2.768	2.663	2.565	3.574
LEVEL 1.2712	1.744	1.810	2.791	5.626	2.616	3.464	2.705	2.754	2.605	3.325
LEVEL 2.9234	1.872	1.731	2.859	5.261	2.672	3.268	2.590	2.516	2.473	3.386
LEVEL 4.2186	1.712	1.784	2.656	4.588	3.076	3.062	2.835	2.602	2.917	3.610
LEVEL 9.4512	2.264	2.030	3.021	3.874	3.023	3.607	3.002	2.536	2.788	8.009
LEVEL 13.0666	2.285	2.061	3.302	5.108	3.157	2.934	2.891	2.941	2.971	4.896
LEVEL 19.2944	2.282	2.532	3.912	4.030	3.201	3.744	3.552	3.455	3.441	7.846
LEVEL 26.1490	2.904	2.447	3.805	5.542	3.380	4.223	3.328	3.565	3.394	4.057
LEVEL 39.4152	3.159	3.088	4.203	5.779	4.174	4.010	4.199	3.888	4.140	4.742
LEVEL 49.7080	3.432	3.359	4.184	5.085	4.317	4.887	4.095	4.205	4.380	5.148
LEVEL 60.3326	3.741	3.663	4.349	5.967	4.392	4.882	4.583	4.356	5.017	4.967
LEVEL 80.4114	3.790	3.862	4.530	7.122	4.973	5.123	4.963	4.899	4.897	5.638
LEVEL 90.1826	4.254	4.394	5.234	5.748	5.068	5.173	5.493	4.891	5.110	6.424

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	2.533	2.529	2.451	2.380
LEVEL	0.7732	2.661	2.541	2.304	2.377
LEVEL	1.2712	2.322	2.543	2.309	2.327
LEVEL	2.9234	2.787	2.622	2.263	2.464
LEVEL	4.2186	2.860	2.750	2.175	2.295
LEVEL	9.4512	3.014	2.894	2.307	2.223
LEVEL	13.0666	2.904	3.220	2.358	2.388
LEVEL	19.2944	3.075	3.379	2.444	2.511
LEVEL	26.1490	3.475	3.742	2.458	2.303
LEVEL	39.4152	3.552	3.941	2.507	2.116
LEVEL	49.7080	3.939	4.255	2.359	2.221
LEVEL	60.3326	4.565	4.419	2.411	2.316
LEVEL	80.4114	4.695	4.733	2.312	2.374
LEVEL	90.1826	5.205	5.185	2.238	2.575

TAPE: F²

FILE: 22

CHIP: 3453-11-7

DIRECTION: F

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	1	322.348	259.004	417.730	440.512	442.227	475.836	429.285	393.602	344.750	314.117
LEVEL	2	320.699	260.039	373.348	379.277	389.500	437.098	398.016	343.285	325.062	300.309
LEVEL	3	319.500	261.031	348.078	342.418	345.645	382.582	305.150	283.930	295.211	287.195
LEVEL	4	317.602	261.336	292.879	278.453	267.711	267.625	264.012	253.746	252.004	259.258
LEVEL	5	918.434	880.832	959.371	930.211	911.355	912.883	899.459	900.187	895.281	894.664

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	1	367.176	332.703	2341.066	2635.324	2785.746	2513.453	2507.457	2173.082	2111.410	2229.535
LEVEL	2	313.047	318.223	2297.543	2421.160	2669.461	2409.305	2427.078	2152.699	2085.437	2095.320
LEVEL	3	282.625	272.055	2204.277	2296.570	2227.719	2211.598	2198.785	2091.230	2055.246	2025.285
LEVEL	4	256.668	251.117	2007.863	2056.996	2119.215	2118.914	2093.004	2030.711	1976.820	1956.820
LEVEL	5	895.098	893.078	4094.414	4094.535	4094.426	4094.434	4094.379	4094.430	4094.426	4094.293

	ELEMENT	12	11	2A	2B
LEVEL	1	2045.758	2081.469	1827.027	2052.570
LEVEL	2	2000.211	2059.246	1824.488	2046.430
LEVEL	3	1981.277	1989.727	1819.820	2035.500
LEVEL	4	1935.289	1903.750	1818.266	2028.367
LEVEL	5	4094.395	4088.934	3977.094	4094.422

TAPE: FA30

FILE: 23

CHIP: 3453-11-7

DIRECTION: F

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 1	434.332	373.809	483.445	518.855	539.027	598.164	527.098	495.957	457.090	433.082
LEVEL 2	435.141	373.434	446.059	471.340	467.902	481.199	493.605	471.074	420.895	407.309
LEVEL 3	435.203	372.309	431.539	443.992	427.852	425.094	407.578	419.859	392.270	392.297
LEVEL 4	434.844	371.266	374.945	377.852	373.355	373.289	373.324	374.695	374.934	375.074
LEVEL 5	793.801	767.836	787.508	787.324	783.801	782.582	780.180	781.461	781.184	781.363

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 1	473.832	442.586	1304.059	1547.008	1614.473	1388.164	1410.492	1132.160	1134.137	1269.687
LEVEL 2	455.105	430.742	1155.512	1353.578	1566.816	1347.684	1340.016	1107.211	1082.687	1253.948
LEVEL 3	428.391	391.246	1063.164	1158.660	1107.938	1138.910	1109.195	1043.434	1048.250	1172.715
LEVEL 4	376.215	374.984	976.539	976.719	976.375	975.762	975.121	972.164	972.574	973.176
LEVEL 5	780.266	771.926	1736.449	1738.383	1747.383	1745.789	1743.977	1740.891	1741.336	1744.738

ELEMENT	12	11	2A	2B
LEVEL 1	1078.477	1155.848	971.699	1035.359
LEVEL 2	1064.125	1097.566	971.566	1037.000
LEVEL 3	1052.285	1032.262	971.207	1038.039
LEVEL 4	977.988	975.516	971.805	1040.906
LEVEL 5	1748.570	1749.992	1729.281	1759.742

TAPE: FA30

FILE: 21

CHIP: 3453-11-7

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	318.883	255.863	415.871	444.875	438.590	477.172	424.326	388.684	338.887	309.098
LEVEL	14.057	323.039	265.004	543.258	570.016	564.457	596.395	543.980	507.527	457.359	425.062
LEVEL	2.957	323.918	265.328	546.777	579.055	571.852	609.988	552.926	517.652	467.609	437.363
LEVEL	3.192	324.891	267.625	576.172	602.723	595.230	633.012	578.027	542.098	491.285	461.352
LEVEL	2.664	324.512	266.902	564.523	595.039	590.223	631.434	572.369	536.918	487.406	455.301
LEVEL	2.761	325.391	268.770	585.090	616.887	610.594	648.191	594.855	558.199	507.230	475.207
LEVEL	2.156	324.078	266.000	552.926	581.781	575.309	623.781	560.875	523.848	476.086	445.336
LEVEL	2.131	324.535	267.113	561.109	591.730	585.242	634.234	573.207	534.969	484.488	455.207
LEVEL	2.119	325.043	267.883	573.414	601.152	594.723	637.281	580.523	539.918	488.809	458.820
LEVEL	1.683	324.207	265.969	549.727	576.379	568.109	614.422	557.340	523.176	472.363	441.094
LEVEL	2.037	326.273	270.312	598.012	623.320	618.332	660.965	602.785	565.187	513.488	482.430
LEVEL	2.285	326.949	271.266	603.035	632.820	629.301	667.543	609.152	576.305	524.605	492.543
LEVEL	2.553	326.766	270.047	585.078	613.695	607.564	649.777	585.270	554.340	505.586	470.102
LEVEL	3.997	327.207	270.676	586.379	615.047	611.016	658.824	595.335	558.254	510.848	478.887
LEVEL	6.473	328.266	271.574	584.766	614.590	606.703	635.766	592.324	557.578	510.203	477.340
LEVEL	16.149	345.602	291.699	651.840	680.676	672.605	698.453	655.660	619.781	572.500	534.703
LEVEL	49.162	375.652	327.660	798.730	831.180	824.801	838.105	802.840	767.172	718.203	674.684

ALL LEVEL LIST OF
RESPONSE

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	360.281	333.891	2345.715	2618.438	2734.781	2480.082	2497.836	2152.613	2088.980	2215.848
LEVEL 14.057	479.762	449.191	2504.039	2749.000	2877.594	2618.480	2623.895	2286.848	2217.898	2339.191
LEVEL 2.957	491.910	461.516	2507.602	2755.230	2863.668	2622.723	2617.637	2291.797	2229.137	2355.863
LEVEL 3.192	517.035	488.359	2540.039	2757.648	2872.699	2647.273	2648.223	2322.383	2254.883	2381.527
LEVEL 2.664	510.281	480.629	2525.668	2772.570	2853.969	2646.090	2640.590	2312.461	2246.484	2372.859
LEVEL 2.761	529.195	499.973	2554.352	2734.770	2886.539	2667.219	2654.745	2304.434	2267.012	2395.789
LEVEL 2.156	500.160	470.617	2518.082	2675.727	2852.359	2634.563	2623.055	2299.535	2232.090	2358.039
LEVEL 2.131	509.582	477.793	2532.965	2710.832	2863.918	2637.293	2635.016	2311.062	2240.164	2372.598
LEVEL 2.119	512.266	483.723	2518.914	2690.906	2884.516	2652.594	2647.270	2322.727	2255.992	2377.762
LEVEL 1.683	496.234	464.355	2490.418	2689.828	2864.145	2626.184	2620.004	2296.566	2229.148	2360.461
LEVEL 2.037	534.746	501.359	2547.691	2730.002	2905.223	2682.699	2670.072	2345.156	2279.648	2407.668
LEVEL 2.285	546.520	514.652	2555.766	2740.707	2975.441	2689.340	2681.590	2353.531	2292.937	2413.020
LEVEL 2.553	521.391	484.766	2522.992	2807.578	2976.006	2675.363	2663.012	2336.090	2276.488	2396.047
LEVEL 3.997	533.629	500.574	2543.969	2771.484	2912.738	2671.637	2654.191	2333.117	2271.527	2393.133
LEVEL 6.473	532.352	499.098	2544.855	2805.320	2908.758	2671.156	2667.949	2334.176	2283.187	2392.879
LEVEL 16.149	586.293	586.926	2688.488	2878.629	3013.672	2742.965	2740.535	2414.617	2351.367	2462.059
LEVEL 49.162	728.762	784.727	2900.715	3049.852	3135.727	2891.984	2889.755	2562.453	2508.457	2607.418

AL LEVEL LIST OF
RESPONSE

ELEMENT	12	11	2A	2B
LEVEL 0.0000	2029.789	2074.926	1809.879	2035.281
LEVEL 14.057	2162.484	2203.168	1819.074	2038.836
LEVEL 2.957	2168.785	2200.195	1816.812	2037.859
LEVEL 3.192	2197.852	2229.602	1820.172	2039.602
LEVEL 2.664	2190.742	2224.875	1819.848	2039.039
LEVEL 2.761	2214.047	2251.504	1822.145	2039.777
LEVEL 2.156	2178.254	2214.152	1820.313	2040.098
LEVEL 2.131	2189.187	2222.457	1821.859	2040.883
LEVEL 2.119	2198.430	2236.766	1823.172	2041.953
LEVEL 1.683	2173.992	2210.766	1821.449	2041.516
LEVEL 2.037	2226.863	2266.238	1827.227	2044.543
LEVEL 2.285	2234.219	2270.629	1828.012	2045.520
LEVEL 2.553	2215.520	2254.559	1827.832	2045.680
LEVEL 3.997	2215.500	2252.309	1827.906	2046.598
LEVEL 6.473	2216.035	2254.801	1830.906	2048.648
LEVEL 16.149	2291.746	2320.957	1854.059	2067.656
LEVEL 49.162	2448.820	2475.848	1893.738	2100.590

RELATIVE SPECTRAL RESPONSE

ELEMENT	10	9	8	7	6	5	4	3	2	1
WAVELENGTH (μm)										
376	.100	.100	.100	.093	.096	.097	.097	.096	.098	.099
430	.491	.514	.507	.494	.492	.499	.504	.506	.515	.521
473	.555	.558	.550	.535	.543	.548	.551	.554	.566	.582
528	.620	.639	.641	.637	.632	.638	.646	.640	.653	.666
571	.680	.706	.700	.681	.699	.703	.706	.702	.709	.727
624	.701	.715	.709	.743	.712	.714	.732	.732	.747	.761
678	.760	.785	.778	.815	.795	.790	.795	.804	.815	.820
719	.825	.835	.828	.830	.813	.817	.819	.824	.829	.852
774	.886	.889	.869	.901	.898	.919	.922	.918	.940	.939
830	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
876	.916	.939	.946	.923	.923	.948	.948	.943	.951	.962
924	.733	.746	.742	.740	.711	.740	.753	.732	.728	.710
981	.474	.483	.486	.500	.485	.486	.498	.496	.503	.504
1019	.288	.295	.291	.268	.292	.297	.305	.302	.306	.306
1081	.162	.165	.163	.150	.162	.164	.167	.163	.162	.189
1130	.098	.098	.097	.098	.099	.099	.098	.101	.092	.122

ELEMENT	20	19	18	17	16	15	14	13	12	11
WAVELENGTH (μm)										
376	.112	.116	.095	.098	.108	.099	.093	.092	.097	.096
430	.548	.576	.411	.481	.491	.494	.482	.499	.482	.447
473	.607	.541	.411	.520	.568	.556	.526	.545	.538	.510
528	.676	.720	.423	.621	.646	.630	.603	.622	.620	.595
571	.757	.526	.518	.676	.732	.692	.656	.686	.684	.676
624	.796	.329	.511	.711	.700	.711	.671	.690	.702	.678
678	.885	.589	.574	.741	.784	.786	.726	.776	.771	.735
719	.818	.458	.665	.812	.853	.843	.801	.806	.767	.806
774	.864	.531	.728	.870	.887	.901	.851	.909	.882	.856
830	1.000	1.000	.795	1.000	1.000	1.000	1.000	1.000	1.000	1.000
876	.927	.947	1.000	.920	.982	.930	.915	.914	.924	.912
924	.692	.919	.888	.760	.781	.752	.744	.741	.743	.740
981	.497	.478	.420	.479	.505	.574	.465	.468	.477	.469
1019	.306	.358	.252	.293	.317	.293	.304	.287	.294	.292
1081	.212	.200	.163	.162	.182	.170	.165	.161	.166	.161
1130	.113	.086	.077	.083	.096	.087	.086	.084	.087	.086

TAPE: FA30

FILE: 1

CHIP: 3453-11-5

DIRECTION: F

TDI-1

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	557.871	498.164	565.844	557.957	560.480	542.359	537.844	645.070	562.367	551.238
LEVEL	0.7732	558.195	498.457	581.422	573.492	575.441	558.039	553.059	639.613	577.801	566.547
LEVEL	1.2712	558.227	498.637	595.590	588.461	589.828	572.230	567.093	671.957	591.777	581.777
LEVEL	2.9234	558.738	499.176	634.035	628.113	627.312	610.531	604.918	706.676	630.012	619.457
LEVEL	4.2186	559.047	499.500	663.840	656.594	657.012	640.172	634.500	723.113	659.758	648.750
LEVEL	9.4512	560.820	501.391	782.723	776.879	773.461	760.699	752.496	839.551	779.773	770.191
LEVEL	13.0666	561.625	502.391	866.625	861.031	857.785	843.301	835.250	925.664	863.902	856.238
LEVEL	19.2944	563.570	504.184	1011.590	1004.785	1001.137	987.594	978.535	1089.984	1009.086	1004.680
LEVEL	26.1490	565.488	506.645	1172.746	1166.047	1160.977	1148.824	1138.523	1244.008	1169.477	1168.219
LEVEL	39.4152	563.379	510.629	1473.742	1467.539	1462.258	1449.676	1437.223	1546.039	1469.320	1471.199
LEVEL	49.7080	572.246	513.434	1710.559	1703.988	1696.133	1685.563	1672.133	1782.297	1705.199	1708.629
LEVEL	60.3326	575.637	516.637	1952.734	1947.566	1937.906	1927.789	1913.461	2022.359	1946.836	1952.121
LEVEL	80.4114	581.344	523.031	2415.961	2409.066	2400.254	2390.645	2374.281	2485.480	2407.437	2415.898
LEVEL	90.1826	584.152	525.887	2623.672	2616.434	2607.828	2598.445	2581.344	2687.723	2614.395	2622.211

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	550.645	559.324	781.367	798.043	782.059	803.488	796.160	824.137	806.434	777.187
LEVEL	0.7732	566.633	573.793	801.527	814.258	798.297	819.852	812.633	841.172	822.730	794.492
LEVEL	1.2712	580.426	581.078	820.437	829.727	813.578	835.547	828.453	856.797	837.598	809.855
LEVEL	2.9234	616.687	617.359	870.496	869.520	854.980	876.914	870.258	899.512	879.199	852.473
LEVEL	4.2186	644.527	644.949	910.441	900.770	888.012	909.188	903.703	934.066	912.594	885.684
LEVEL	9.4512	754.309	757.699	1063.316	1022.820	1016.129	1033.344	1031.563	1061.227	1036.656	1014.418
LEVEL	13.0666	832.395	835.832	1173.133	1110.715	1103.699	1123.336	1122.723	1151.453	1124.250	1101.668
LEVEL	19.2944	973.445	970.391	1362.453	1265.488	1258.039	1280.117	1279.004	1305.785	1277.191	1251.711
LEVEL	26.1490	1134.754	1116.555	1570.980	1435.566	1429.074	1453.250	1451.949	1478.070	1446.445	1418.836
LEVEL	39.4152	1442.984	1388.934	1960.227	1756.621	1749.895	1777.023	1775.727	1803.824	1767.160	1740.707
LEVEL	49.7080	1685.563	1605.367	2260.719	2008.781	2002.574	2032.969	2031.398	2056.723	2020.316	1996.668
LEVEL	60.3326	1931.492	1831.055	2563.938	2266.102	2259.480	2291.984	2290.500	2320.684	2279.668	2254.902
LEVEL	80.4114	2398.711	2266.141	3137.527	2757.574	2751.500	2789.855	2737.652	2818.820	2777.137	2740.492
LEVEL	90.1826	2606.770	2462.660	3394.805	2980.016	2972.961	3014.113	3011.848	3043.195	3000.328	2960.895

ALL LEVEL LIST OF
RESPONSE

ELEMENT	12	11	2A	2B
LEVEL 0.0000	814.039	822.457	732.449	797.434
LEVEL 0.7732	830.973	839.508	732.672	797.773
LEVEL 1.2712	846.125	855.316	733.016	797.934
LEVEL 2.9234	887.434	896.766	733.793	798.750
LEVEL 4.2186	920.137	931.199	735.004	799.980
LEVEL 9.4512	1046.309	1057.824	736.258	801.211
LEVEL 13.0666	1136.375	1148.535	737.031	801.898
LEVEL 19.2944	1296.141	1307.430	740.418	805.363
LEVEL 26.1490	1474.066	1483.258	743.273	807.602
LEVEL 39.4152	1802.012	1809.625	747.098	811.684
LEVEL 49.7080	2056.680	2065.047	750.520	814.937
LEVEL 60.3326	2318.664	2326.555	753.961	818.785
LEVEL 80.4114	2825.016	2827.418	761.043	825.578
LEVEL 90.1826	3053.461	3054.008	764.062	828.602

DEVIATION FROM STRAIGHT LINE FIT

FILE #1

ELEMENT	10	9	8	7	6	5	4	3	2	1
LEVEL 0.7732	-2.12	-2.17	-2.65	-2.00	-2.36	-23.02	-2.21	-2.50	-1.69	-1.90
LEVEL 1.2712	.73	1.48	.48	.88	.44	-1.91	.48	1.34	.79	-5.08
LEVEL 2.9234	1.52	3.46	.50	1.55	.86	-4.58	1.16	1.12	-.58	-3.63
LEVEL 4.2186	1.69	2.30	.72	1.59	1.02	-17.55	1.36	.56	-2.34	-3.45
LEVEL 9.4512	1.22	3.19	-1.58	2.86	.49	-19.59	2.35	1.92	-11.82	-1.09
LEVEL 13.0666	2.60	4.80	.64	3.01	1.30	-15.39	4.20	4.92	-16.81	.71
LEVEL 19.2944	5.58	6.52	2.73	5.44	3.59	7.99	7.79	10.46	-17.00	3.94
LEVEL 26.1490	10.13	11.13	6.77	10.20	8.17	6.57	12.02	16.40	-12.17	5.26
LEVEL 39.4152	8.42	9.82	6.87	8.60	6.18	8.13	10.01	14.74	-6.39	-2.34
LEVEL 49.7080	10.44	11.40	7.15	9.89	7.91	11.31	11.75	15.87	1.58	-3.08
LEVEL 60.3326	10.20	12.49	7.75	9.91	8.52	10.75	11.66	15.40	5.30	-1.60
LEVEL 80.4114	15.15	15.57	14.15	14.87	14.25	18.98	15.28	17.97	14.62	9.61

ELEMENT	20	19	18	17	16	15	14	13	12	11
LEVEL 0.7732	-2.32	-2.55	-2.60	-2.65	-2.58	-2.05	-2.57	-1.47	-2.33	-2.14
LEVEL 1.2712	2.22	.92	.63	.89	1.05	1.37	.23	1.88	.51	1.39
LEVEL 2.9234	4.45	.78	1.94	1.80	2.31	3.48	.68	4.53	.84	2.01
LEVEL 4.2186	6.77	.61	3.42	2.24	3.85	6.08	3.49	6.30	2.18	4.31
LEVEL 9.4512	8.06	-3.89	4.46	-1.82	3.20	4.53	.30	8.38	-2.42	1.50
LEVEL 13.0666	13.08	-3.50	4.18	+.47	5.51	5.77	-.08	8.06	-2.16	2.73
LEVEL 19.2944	22.07	.72	7.35	3.78	8.91	7.66	1.48	7.43	3.09	7.64
LEVEL 26.1490	31.72	4.75	11.66	8.68	13.24	10.41	3.78	8.37	10.59	13.65
LEVEL 39.4152	36.53	4.84	10.19	7.27	11.09	9.74	1.78	9.02	9.12	11.76
LEVEL 49.7080	38.82	8.03	12.89	10.98	13.95	9.44	4.61	15.82	8.27	12.56
LEVEL 60.3326	34.18	8.32	11.71	9.59	12.05	12.00	5.52	16.82	6.45	11.19
LEVEL 80.4114	25.76	13.65	15.81	15.15	15.76	15.95	14.41	16.09	14.08	14.73

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	1.991	2.034	2.331	2.166	2.263	2.199	2.275	4.013	2.178	2.159
LEVEL 0.7732	2.140	2.129	2.333	2.480	2.208	2.000	2.171	2.653	2.009	2.108
LEVEL 1.2712	1.949	1.803	2.406	2.339	2.157	2.110	2.246	5.598	2.660	2.251
LEVEL 2.9234	2.005	1.997	2.267	2.205	2.286	2.284	2.114	4.917	2.290	2.319
LEVEL 4.2186	1.884	1.982	2.327	2.384	2.387	2.338	2.084	2.479	2.255	2.338
LEVEL 9.4512	1.876	2.183	2.667	2.746	2.677	2.562	2.585	3.044	2.710	2.566
LEVEL 13.0666	1.992	1.905	2.486	2.944	2.786	2.632	2.909	3.557	2.720	2.760
LEVEL 19.2944	1.933	2.198	2.991	2.984	3.125	2.792	2.774	6.154	3.012	2.909
LEVEL 26.1490	1.868	2.094	2.996	3.104	3.265	3.336	3.181	5.472	3.225	3.317
LEVEL 39.4152	1.926	1.992	3.379	3.939	3.636	3.536	3.446	5.433	3.675	3.733
LEVEL 49.7080	1.952	1.963	3.926	4.244	4.015	3.951	3.960	5.372	3.732	3.922
LEVEL 60.3326	1.878	1.869	3.954	4.284	4.122	4.281	4.046	5.452	4.076	3.923
LEVEL 80.4114	1.926	2.033	4.545	4.657	4.011	4.370	4.314	7.420	4.246	4.332
LEVEL 90.1826	2.091	2.107	4.796	4.842	4.914	4.639	5.075	6.843	4.817	4.536

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	2.161	2.223	1.680	1.807	1.811	1.732	1.833	1.902	1.935	1.896
LEVEL 0.7732	2.333	2.023	1.594	1.882	1.838	1.881	1.863	1.939	1.971	1.870
LEVEL 1.2712	2.128	2.074	1.827	1.929	1.957	1.966	1.853	1.997	1.806	1.974
LEVEL 2.9234	2.314	2.192	1.851	2.118	2.009	1.990	2.047	2.045	1.951	2.073
LEVEL 4.2186	2.244	2.230	2.026	1.990	2.112	2.150	1.915	2.149	1.948	2.034
LEVEL 9.4512	2.456	2.514	2.397	1.864	2.320	2.361	2.271	2.421	2.514	2.221
LEVEL 13.0666	2.760	2.487	2.401	2.606	2.394	2.628	2.545	2.534	2.340	2.411
LEVEL 19.2944	3.069	2.691	2.562	2.795	2.848	2.930	2.701	2.680	2.914	2.654
LEVEL 26.1490	2.902	3.018	3.200	3.165	3.137	2.870	2.871	3.184	3.238	3.233
LEVEL 39.4152	3.457	3.494	3.462	3.452	3.147	3.208	3.575	3.651	3.758	3.865
LEVEL 49.7080	3.425	3.758	3.956	3.803	3.551	3.576	3.924	4.247	3.962	3.781
LEVEL 60.3326	3.913	3.952	3.979	3.777	4.441	4.527	4.198	4.030	3.900	4.090
LEVEL 80.4114	4.777	4.066	4.386	4.127	4.465	4.557	4.579	4.705	4.965	4.806
LEVEL 90.1826	4.874	5.067	4.685	4.710	4.587	4.919	4.652	5.101	4.871	4.573

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	2.061	2.067	1.703	1.641
LEVEL	0.7732	1.935	1.976	1.763	1.716
LEVEL	1.2712	2.010	1.972	1.756	1.710
LEVEL	2.9234	2.269	2.002	1.697	1.692
LEVEL	4.2186	2.244	2.134	1.728	1.570
LEVEL	9.4512	2.519	2.613	1.672	1.803
LEVEL	13.0666	2.846	2.745	1.737	1.739
LEVEL	19.2944	2.996	2.800	1.824	1.714
LEVEL	26.1490	3.332	3.086	1.698	1.687
LEVEL	39.4152	3.761	3.713	1.800	1.670
LEVEL	49.7080	3.971	4.168	1.778	2.001
LEVEL	60.3326	3.999	3.932	1.769	1.853
LEVEL	80.4114	4.536	4.227	1.774	1.713
LEVEL	90.1826	4.969	4.696	1.818	1.814

TAPE: FA30

FILE: 3

CHIP: 3453-11-5

DIRECTION: F

TDI-2

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	556.211	494.602	582.785	574.926	609.684	579.504	552.441	668.098	584.430	579.062
LEVEL	0.7732	556.695	494.977	614.500	606.398	641.824	610.625	594.375	701.051	616.148	611.629
LEVEL	1.2712	556.758	495.270	643.496	635.293	669.492	639.801	623.568	720.426	645.195	640.707
LEVEL	2.9234	557.238	495.469	721.738	712.863	746.996	718.187	702.609	788.437	724.219	719.977
LEVEL	4.2186	557.727	495.953	781.973	772.734	806.703	779.754	762.984	849.125	785.062	780.539
LEVEL	9.4512	559.262	497.359	1024.211	1014.914	1047.457	1022.109	1005.883	1089.246	1028.848	1026.461
LEVEL	13.0666	560.230	498.090	1192.777	1182.699	1215.445	1191.160	1175.699	1259.223	1198.047	1197.164
LEVEL	19.2944	562.305	499.867	1486.758	1474.957	1509.996	1485.238	1469.457	1547.008	1492.094	1492.078
LEVEL	26.1490	563.777	501.328	1811.289	1798.488	1834.641	1809.301	1794.973	1868.988	1816.234	1817.055
LEVEL	39.4152	567.527	504.219	2416.273	2400.605	2435.891	2414.082	2399.156	2466.879	2420.207	2419.434
LEVEL	49.7080	570.750	507.043	2889.605	2872.402	2908.477	2887.176	2872.937	2953.926	2892.051	2891.074
LEVEL	60.3326	573.648	509.582	3374.207	3353.633	3391.605	3371.508	3357.863	3435.695	3374.590	3372.324
LEVEL	80.4114	579.109	513.398	4095.000	4095.000	4095.000	4095.000	4095.000	4095.000	4095.000	4095.000
LEVEL	90.1826	581.641	515.203	4095.000	4095.000	4095.000	4095.000	4095.000	4095.000	4095.000	4095.000

Handwritten signature/initials

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	579.488	584.863	823.285	834.711	812.395	834.855	824.164	886.406	849.777	789.738
LEVEL	0.7732	609.637	615.309	861.043	867.430	847.020	868.762	858.652	920.937	883.984	824.465
LEVEL	1.2712	636.777	642.078	896.500	896.109	878.762	899.469	889.591	953.449	915.984	856.801
LEVEL	2.9234	709.211	716.812	990.859	978.535	965.332	981.770	975.406	1027.676	998.340	942.016
LEVEL	4.2186	765.008	773.789	1062.391	1042.008	1029.320	1044.254	1040.023	1101.621	1063.270	1007.785
LEVEL	9.4512	1001.047	1000.469	1354.223	1302.305	1290.781	1303.852	1301.215	1360.906	1313.281	1260.953
LEVEL	13.0666	1171.770	1153.906	1557.984	1483.789	1473.996	1486.301	1483.727	1545.055	1491.160	1437.941
LEVEL	19.2944	1473.355	1420.840	1911.277	1799.023	1789.984	1802.191	1799.969	1857.062	1803.648	1753.984
LEVEL	26.1490	1806.395	1720.496	2299.902	2147.199	2140.176	2151.590	2149.789	2211.387	2150.535	2104.355
LEVEL	39.4152	2417.473	2290.695	3023.832	2792.078	2790.617	2803.219	2801.430	2861.750	2798.012	2746.859
LEVEL	49.7080	2892.684	2739.570	3593.035	3300.953	3300.863	3314.449	3314.063	3375.555	3309.781	3251.793
LEVEL	60.3326	3378.559	3200.230	4084.660	3824.219	3826.102	3840.727	3840.656	3904.652	3833.254	3776.996
LEVEL	80.4114	4095.000	4043.465	4094.199	4094.445	4094.465	4094.445	4094.387	4094.309	4094.457	4094.312
LEVEL	90.1826	4095.000	4095.000	4094.437	4094.211	4094.238	4094.234	4094.207	4094.441	4094.246	4094.234

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	856.246	842.969	730.312	797.797
LEVEL	0.7732	891.307	875.406	730.551	797.980
LEVEL	1.2712	922.855	906.551	730.824	798.340
LEVEL	2.9234	1006.184	991.820	731.344	798.824
LEVEL	4.2186	1071.195	1055.906	731.562	799.461
LEVEL	9.4512	1336.965	1321.270	735.008	802.672
LEVEL	13.0666	1524.395	1503.344	736.457	804.117
LEVEL	19.2944	1845.969	1819.582	737.961	806.203
LEVEL	26.1490	2196.313	2171.086	739.754	808.535
LEVEL	39.4152	2856.664	2823.910	743.531	813.047
LEVEL	49.7080	3374.770	3336.383	745.902	816.551
LEVEL	60.3326	3906.047	3862.941	748.227	819.898
LEVEL	80.4114	4094.367	4094.473	751.199	825.465
LEVEL	90.1826	4094.469	4094.254	753.039	828.242

[illegible][illegible]

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	2.268	2.207	1.688	2.359	1.874	1.845	1.963	4.654	1.959	1.707
LEVEL	0.7732	2.238	2.426	1.811	1.837	2.040	2.117	1.954	2.238	2.166	1.883
LEVEL	1.2712	2.348	2.269	1.808	2.518	2.152	1.986	1.947	2.452	2.014	2.099
LEVEL	2.9234	2.352	2.397	1.981	2.406	2.091	2.282	2.261	2.342	2.174	2.135
LEVEL	4.2186	2.440	2.579	2.359	2.467	2.233	2.211	2.437	4.627	2.403	2.102
LEVEL	9.4512	2.957	3.021	2.711	2.811	2.652	2.611	2.518	5.383	3.045	2.665
LEVEL	13.0666	2.995	2.878	2.750	3.328	3.164	2.964	2.946	4.528	3.276	2.889
LEVEL	19.2944	3.775	3.479	3.521	3.575	3.409	3.490	3.763	5.824	3.465	3.310
LEVEL	26.1490	3.891	3.698	3.683	3.813	3.594	3.506	3.895	4.019	3.997	3.808
LEVEL	39.4152	4.726	4.557	5.014	4.521	4.146	4.528	4.793	6.488	4.223	4.523
LEVEL	49.7080	5.632	4.875	5.363	5.403	5.137	5.310	5.023	5.550	5.381	5.362
LEVEL	60.3326	5.712	4.969	2.551	5.906	5.525	5.599	5.491	5.574	5.438	5.588
LEVEL	80.4114	.000	3.575	.455	.498	.500	.498	.488	.463	.499	.535
LEVEL	90.1826	.000	.000	.660	.437	.454	.546	.485	.543	.530	.424

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	12	11	2A	2B
LEVEL 0.0000	2.054	2.013	1.695	1.571
LEVEL 0.7732	2.129	2.037	1.687	1.653
LEVEL 1.2712	1.968	2.038	1.743	1.651
LEVEL 2.9234	2.390	2.427	1.642	1.696
LEVEL 4.2186	2.499	2.509	1.629	1.659
LEVEL 9.4512	2.859	2.919	1.628	1.587
LEVEL 13.0666	2.926	3.148	1.652	1.567
LEVEL 19.2944	3.485	3.496	1.554	1.675
LEVEL 26.1490	4.160	4.030	1.635	1.664
LEVEL 39.4152	4.331	4.258	1.637	1.744
LEVEL 49.7080	5.113	5.284	1.619	1.615
LEVEL 60.3326	5.681	5.335	1.709	1.719
LEVEL 80.4114	.483	.500	1.790	1.678
LEVEL 90.1826	.500	.634	1.649	1.691

TAPE: FA30

FILE: 5

CHIP: 3453-11-5

DIRECTION: F

TDI-3

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	LB	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	554.844	491.023	646.266	694.660	664.383	642.305	651.008	708.914	611.094	615.215
LEVEL	0.2652	554.629	491.066	663.848	711.723	681.508	658.031	679.707	721.734	628.895	632.340
LEVEL	0.5064	554.840	491.309	678.848	727.266	697.211	676.930	695.281	738.977	644.766	648.922
LEVEL	1.1646	555.023	491.484	721.754	766.516	747.762	719.945	738.184	780.539	688.230	692.238
LEVEL	1.6806	555.195	491.789	753.742	791.219	779.676	752.445	770.734	814.559	721.746	725.246
LEVEL	3.7654	556.402	492.449	887.715	923.105	909.246	884.492	902.883	949.238	855.418	861.793
LEVEL	5.2058	556.656	493.074	976.859	1013.367	1001.355	975.008	985.641	1033.426	948.234	954.961
LEVEL	7.6870	557.648	493.746	1136.703	1173.187	1160.207	1138.477	1145.297	1195.191	1108.551	1116.691
LEVEL	10.4772	558.359	494.344	1312.277	1349.695	1336.723	1314.035	1325.129	1375.988	1286.035	1296.344
LEVEL	15.7032	559.547	495.148	1645.469	1680.258	1662.398	1644.344	1658.754	1705.477	1617.523	1629.758
LEVEL	19.8040	560.988	496.180	1905.492	1937.258	1921.852	1902.430	1913.812	1964.676	1878.164	1889.703
LEVEL	24.0368	561.898	496.934	2170.836	2202.648	2188.977	2168.629	2179.309	2229.555	2145.418	2156.617
LEVEL	32.2002	564.344	498.430	2678.141	2709.238	2695.871	2676.586	2686.879	2734.492	2653.164	2666.238
LEVEL	35.9292	565.422	499.086	2906.516	2936.449	2924.727	2906.168	2915.027	2963.977	2880.719	2893.930

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	614.930	675.383	848.418	839.500	827.215	847.926	858.309	928.215	892.039	801.363
LEVEL	0.2652	630.906	691.004	868.012	857.055	845.434	865.719	875.945	948.348	911.695	820.102
LEVEL	0.5064	645.555	704.676	886.598	872.910	862.801	882.281	894.341	957.855	926.355	837.492
LEVEL	1.1646	684.895	746.707	937.727	916.613	909.164	926.434	940.152	1009.867	972.328	884.160
LEVEL	1.6806	715.098	779.598	977.090	951.332	945.262	960.629	975.414	1041.945	1006.008	919.813
LEVEL	3.7654	841.379	903.090	1134.848	1089.895	1086.168	1098.980	1117.645	1183.367	1148.594	1060.707
LEVEL	5.2058	930.980	989.043	1247.613	1187.891	1184.746	1197.863	1215.582	1281.816	1246.801	1156.359
LEVEL	7.6870	1091.813	1134.664	1440.227	1360.133	1355.875	1369.695	1389.437	1455.953	1414.094	1321.461
LEVEL	10.4772	1273.945	1295.160	1653.191	1549.973	1545.625	1560.293	1579.809	1649.449	1602.852	1509.254
LEVEL	15.7032	1614.824	1599.277	2051.301	1907.535	1903.395	1918.457	1940.015	2003.746	1957.781	1867.008
LEVEL	19.2040	1878.418	1845.672	2364.855	2186.578	2182.453	2198.836	2219.141	2286.531	2236.348	2146.348
LEVEL	24.0368	2148.645	2096.734	2685.316	2473.859	2468.562	2486.422	2507.387	2570.160	2523.059	2429.844
LEVEL	32.2002	2661.727	2582.844	3295.160	3020.211	3015.547	3035.328	3055.254	3119.727	3071.305	2968.180
LEVEL	35.9292	2890.805	2799.687	3573.352	3268.305	3261.598	3282.105	3301.541	3373.668	3319.031	3211.883

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	910.090	860.621	732.863	804.477
LEVEL	0.2652	927.687	876.758	733.180	804.773
LEVEL	0.5064	943.113	894.465	733.422	804.914
LEVEL	1.1646	989.613	940.816	734.012	805.488
LEVEL	1.6806	1026.344	974.695	734.027	805.449
LEVEL	3.7654	1168.672	1117.898	735.000	806.742
LEVEL	5.2058	1270.359	1217.586	736.082	807.789
LEVEL	7.6870	1447.219	1389.723	737.730	809.703
LEVEL	10.4772	1638.902	1584.043	738.492	810.617
LEVEL	15.7032	2002.770	1941.602	739.191	811.980
LEVEL	19.8040	2281.770	2220.246	740.273	813.641
LEVEL	24.0368	2573.113	2509.668	741.508	815.445
LEVEL	32.2002	3133.758	3063.371	742.887	817.887
LEVEL	35.9292	3383.109	3307.449	743.430	819.023

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	2.029	1.828	2.371	2.854	2.230	2.773	2.654	5.474	2.393	2.400
LEVEL	0.2652	1.808	1.954	2.176	2.793	2.353	2.719	2.772	5.367	2.237	2.428
LEVEL	0.5064	1.922	1.971	2.267	2.794	2.334	2.560	2.627	5.422	2.381	2.368
LEVEL	1.1646	1.901	1.853	2.249	2.813	2.579	2.888	2.949	4.588	2.574	2.490
LEVEL	1.6806	1.871	1.835	2.690	2.343	2.424	2.765	2.890	5.261	2.508	2.622
LEVEL	3.7654	1.793	1.884	2.561	2.929	2.994	2.845	3.041	6.010	2.820	2.831
LEVEL	5.2058	1.950	1.942	2.780	2.936	2.882	3.130	2.660	5.549	2.831	2.803
LEVEL	7.6870	1.898	1.792	3.009	3.358	3.301	3.767	3.310	5.193	2.835	2.995
LEVEL	10.4772	1.896	1.876	3.314	3.217	3.245	3.468	3.307	5.824	3.328	3.587
LEVEL	15.7032	1.721	1.967	3.665	3.879	3.449	3.617	4.017	6.226	3.640	3.727
LEVEL	19.8040	1.915	1.964	4.100	3.938	3.848	3.707	4.511	5.755	3.611	3.729
LEVEL	24.0368	1.932	1.930	4.319	4.149	4.919	4.496	4.281	5.141	4.187	4.307
LEVEL	32.2002	1.767	1.991	4.774	4.540	4.735	5.043	4.530	5.710	4.778	4.428
LEVEL	35.9292	1.835	1.864	4.935	5.080	4.541	5.489	5.246	7.258	5.044	5.121

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	2.318	2.318	1.718	1.883	1.799	1.876	1.997			
LEVEL	0.2652	2.273	2.322	1.634	1.907	1.937	1.664	2.091	2.310	2.123	1.799
LEVEL	0.5064	2.341	2.478	1.677	1.869	1.947	1.895	1.950	2.755	2.160	1.795
LEVEL	1.1646	2.304	2.750	2.018	2.016	2.179	1.987	2.084	5.238	2.070	1.836
LEVEL	1.6806	2.236	2.476	2.063	2.213	2.194	1.992	2.116	2.410	2.109	1.824
LEVEL	3.7654	2.478	2.640	2.307	2.212	2.273	2.300	2.349	5.754	2.356	1.927
LEVEL	5.2058	2.829	2.841	2.625	2.599	2.741	2.435	2.576	6.261	2.494	2.325
LEVEL	7.6870	2.999	2.800	2.846	2.974	2.745	2.763	2.576	5.928	2.577	2.433
LEVEL	10.4772	3.292	3.564	2.948	3.059	2.929	2.800	2.759	5.722	2.809	2.786
LEVEL	15.7032	3.559	3.325	2.898	3.641	3.739	3.516	3.118	3.947	2.985	2.936
LEVEL	19.8040	4.052	3.737	4.187	3.973	3.630	3.869	3.594	6.349	3.546	3.178
LEVEL	24.0368	4.324	3.910	4.124	4.297	3.970	4.240	4.107	5.899	3.803	3.860
LEVEL	32.2002	4.594	4.410	5.111	4.943	4.565	4.682	3.304	6.495	3.907	3.999
LEVEL	35.9292	4.640	5.096	4.682	4.813	4.985	5.023	5.141	6.652	4.043	4.911
								4.357	5.201	5.167	4.821

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	2.278	1.908	1.493	1.544
LEVEL	0.2652	2.279	2.044	1.604	1.390
LEVEL	0.5064	2.711	2.125	1.643	1.508
LEVEL	1.1646	2.405	2.085	1.553	1.447
LEVEL	1.6806	2.287	2.227	1.404	1.528
LEVEL	3.7654	2.466	2.439	1.466	1.553
LEVEL	5.2058	3.409	2.390	1.377	1.540
LEVEL	7.6870	3.649	2.898	1.477	1.554
LEVEL	10.4772	3.640	3.011	1.471	1.537
LEVEL	15.7032	3.808	3.765	1.374	1.427
LEVEL	19.8040	4.342	3.603	1.448	1.651
LEVEL	24.0368	4.775	4.447	1.621	1.541
LEVEL	32.2002	4.911	4.510	1.405	1.516
LEVEL	35.9292	5.599	5.034	1.437	1.466

TAPE: FA30

FILE: 2

CHIP: 3453-11-5

DIRECTION: R

TDI-1

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	562.590	501.352	600.090	622.562	573.328	573.051	602.395	544.055	545.078	557.047
LEVEL 0.7732	562.617	501.461	614.953	638.676	588.379	588.305	618.285	559.406	560.891	572.777
LEVEL 1.2712	562.832	501.633	629.305	654.230	602.574	602.055	632.785	573.930	575.102	587.016
LEVEL 2.9234	563.207	502.027	667.566	692.320	638.930	640.070	670.086	612.633	613.539	626.074
LEVEL 4.2186	563.453	502.496	697.617	722.227	670.496	669.492	699.898	642.863	643.301	655.957
LEVEL 9.4512	564.852	503.910	814.867	841.266	789.266	790.281	817.512	763.691	762.648	776.555
LEVEL 13.0666	566.016	505.227	899.074	925.738	872.359	870.867	900.141	847.719	845.469	860.297
LEVEL 19.2944	567.812	506.797	1044.953	1069.906	1016.629	1016.473	1044.312	993.293	990.199	1006.246
LEVEL 26.1490	569.863	509.102	1204.465	1231.695	1176.137	1176.664	1205.520	1156.355	1151.414	1168.562
LEVEL 39.4152	573.812	512.789	1504.094	1532.676	1479.578	1474.133	1505.148	1460.922	1452.992	1470.863
LEVEL 49.7080	576.785	515.727	1740.176	1770.781	1716.785	1713.992	1742.699	1699.902	1689.805	1710.277
LEVEL 60.3326	579.996	518.785	1985.762	2013.926	1969.379	1957.184	1985.020	1943.922	1932.680	1953.785
LEVEL 80.4114	585.992	524.387	2449.730	2476.039	2423.477	2422.164	2445.113	2411.871	2397.520	2420.133
LEVEL 90.1826	588.703	527.137	2657.703	2684.949	2629.359	2628.512	2651.824	2619.957	2605.191	2628.617

ALL LEVEL LIST OF
RESPONSE

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	551.098	590.180	1156.852	1150.234	1166.266	1167.102	1181.516	1183.676	1185.828	1156.176
LEVEL 0.7732	566.344	606.668	1174.285	1166.141	1181.578	1183.273	1197.090	1199.379	1200.902	1172.004
LEVEL 1.2712	580.844	620.672	1190.332	1180.797	1196.203	1198.363	1212.176	1214.582	1216.156	1186.727
LEVEL 2.9234	619.469	656.680	1235.629	1222.254	1236.648	1239.750	1254.004	1256.176	1259.602	1228.234
LEVEL 4.2186	649.238	685.547	1271.410	1253.480	1267.422	1270.980	1285.801	1287.539	1291.238	1258.996
LEVEL 9.4512	769.414	798.449	1412.137	1379.582	1392.676	1397.965	1412.566	1414.461	1420.395	1385.711
LEVEL 13.0666	852.902	878.496	1511.676	1467.910	1480.266	1486.535	1500.801	1501.359	1509.309	1473.879
LEVEL 19.2944	998.004	1017.340	1684.582	1621.984	1631.715	1640.187	1655.738	1651.785	1665.461	1628.355
LEVEL 26.1490	1159.539	1173.855	1875.980	1793.648	1801.758	1811.176	1826.844	1820.727	1840.559	1799.246
LEVEL 39.4152	1461.469	1465.277	2233.953	2112.656	2117.652	2130.680	2147.559	2139.473	2166.109	2117.594
LEVEL 49.7080	1699.270	1692.336	2514.371	2366.352	2368.770	2382.863	2400.094	2391.664	2419.125	2369.902
LEVEL 60.3326	1942.297	1924.039	2800.602	2624.762	2624.164	2639.285	2657.055	2648.625	2679.883	2626.660
LEVEL 80.4114	2407.082	2372.043	3352.816	3118.535	3113.535	3130.836	3149.727	3142.187	3174.070	3118.621
LEVEL 90.1826	2614.820	2571.445	3600.617	3341.297	3334.152	3353.195	3373.484	3365.871	3398.047	3341.598

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1196.125	1156.156	1099.313	1167.598
LEVEL	0.7732	1211.609	1171.773	1098.816	1166.871
LEVEL	1.2712	1226.508	1187.020	1098.828	1167.023
LEVEL	2.9234	1267.648	1228.801	1099.918	1168.051
LEVEL	4.2186	1299.078	1259.926	1099.770	1167.516
LEVEL	9.4512	1425.914	1387.320	1101.367	1169.309
LEVEL	13.0666	1514.039	1475.871	1102.199	1170.008
LEVEL	19.2944	1668.082	1629.797	1104.512	1172.227
LEVEL	26.1490	1839.473	1801.426	1106.754	1174.664
LEVEL	39.4152	2158.000	2120.586	1110.734	1178.816
LEVEL	49.7080	2408.934	2373.137	1113.734	1181.840
LEVEL	60.3326	2666.145	2629.695	1116.809	1184.969
LEVEL	80.4114	3155.887	3122.367	1123.016	1191.387
LEVEL	90.1826	3379.516	3344.992	1125.742	1194.762

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	2.151	2.087	2.520	2.625	2.378	2.180	2.515	2.410	2.437	2.384
LEVEL 0.7732	2.377	2.174	2.601	2.789	2.593	2.522	2.535	2.484	2.507	2.430
LEVEL 1.2712	2.039	1.996	2.685	2.790	2.431	2.528	2.404	2.587	2.346	2.419
LEVEL 2.9234	2.158	2.085	2.660	2.920	2.468	2.529	2.553	2.525	2.404	2.371
LEVEL 4.2186	2.158	2.203	2.847	2.951	2.730	2.741	2.619	2.421	2.565	2.591
LEVEL 9.4512	2.162	2.157	2.818	3.177	2.835	3.063	2.924	2.777	2.724	2.723
LEVEL 13.0666	2.214	2.246	3.155	2.836	2.992	2.799	2.899	2.933	2.859	2.888
LEVEL 19.2944	2.188	1.970	3.112	3.280	3.206	3.144	3.036	3.188	3.018	3.148
LEVEL 26.1490	2.135	2.130	3.542	3.473	3.459	3.093	3.795	3.479	3.493	3.498
LEVEL 39.4152	2.222	2.053	3.832	3.773	3.613	3.751	3.891	3.516	3.680	3.706
LEVEL 49.7080	2.123	2.175	3.835	4.426	3.922	4.244	3.955	4.032	3.864	3.981
LEVEL 60.3326	2.061	2.276	4.109	4.428	4.391	4.161	4.264	4.103	4.009	4.212
LEVEL 80.4114	2.202	2.109	4.674	5.053	4.411	4.715	4.475	4.965	4.349	4.453
LEVEL 90.1826	2.238	2.209	4.793	5.431	4.979	4.953	5.105	4.726	5.210	4.840

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	2.418	2.256	2.823	2.777	2.969	2.569	2.955	2.902	3.124	3.110
LEVEL 0.7732	2.589	2.325	2.919	2.701	2.968	2.873	2.978	2.844	3.089	2.869
LEVEL 1.2712	2.378	2.513	2.749	2.867	2.876	3.009	3.136	3.022	3.082	2.848
LEVEL 2.9234	2.565	2.460	2.995	2.959	2.854	2.904	3.174	3.057	3.227	2.848
LEVEL 4.2186	2.672	2.443	2.957	3.092	3.218	2.850	3.165	3.287	3.114	3.265
LEVEL 9.4512	2.612	2.862	3.159	3.319	3.181	3.305	3.159	3.413	3.486	3.302
LEVEL 13.0666	2.856	2.772	3.477	3.546	3.274	3.463	3.251	3.410	3.505	3.298
LEVEL 19.2944	2.931	3.203	3.429	3.709	3.535	3.712	3.742	3.528	3.635	3.569
LEVEL 26.1490	3.287	3.245	3.686	3.488	3.648	4.041	3.752	3.752	4.127	3.782
LEVEL 39.4152	3.519	3.317	4.430	4.153	4.066	4.455	4.005	4.064	4.537	3.979
LEVEL 49.7080	3.980	3.934	4.469	4.312	4.322	4.728	4.535	4.119	4.533	4.203
LEVEL 60.3326	4.465	4.046	4.968	4.331	4.429	4.532	4.595	4.868	4.648	4.652
LEVEL 80.4114	4.352	4.369	4.851	4.649	4.814	5.168	5.541	5.199	5.046	5.194
LEVEL 90.1826	5.100	5.018	5.596	5.168	5.207	5.722	5.304	5.399	5.023	5.255

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	12	11	2A	2B
LEVEL 0.0000	2.964	2.805	2.649	2.764
LEVEL 0.7732	3.114	2.790	2.591	2.797
LEVEL 1.2712	2.882	2.967	2.665	2.827
LEVEL 2.9234	3.104	2.720	2.832	2.585
LEVEL 4.2186	3.108	3.033	2.548	2.768
LEVEL 9.4512	3.194	3.441	2.634	2.786
LEVEL 13.0666	3.637	3.547	2.783	2.944
LEVEL 19.2944	3.717	3.653	2.633	2.865
LEVEL 26.1490	3.908	3.577	2.962	2.840
LEVEL 39.4152	4.735	4.183	2.956	2.917
LEVEL 49.7080	4.643	4.967	2.636	2.980
LEVEL 60.3326	4.647	4.597	2.843	2.738
LEVEL 80.4114	5.412	5.045	2.632	2.959
LEVEL 90.1826	5.041	5.284	2.857	2.729

TAPE: FA30

FILE: 4

CHIP: 3453-11-5

DIRECTION: R

TDI-2

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	558.656	498.895	618.297	660.562	622.270	619.809	643.359	565.402	565.949	587.102
LEVEL 0.2652	558.191	498.676	630.844	679.195	633.785	631.684	652.582	576.879	577.000	598.828
LEVEL 0.5064	558.059	498.453	641.988	682.402	643.020	640.898	650.141	586.926	587.242	608.473
LEVEL 1.1646	558.137	498.434	669.918	710.316	671.945	672.945	689.809	615.191	616.176	637.238
LEVEL 1.6806	557.937	498.258	690.105	731.453	692.758	690.559	711.391	636.797	637.570	657.559
LEVEL 3.7654	558.566	498.840	778.359	817.816	781.652	782.027	800.844	725.797	726.734	747.598
LEVEL 5.2058	558.750	499.000	839.762	877.879	843.984	843.855	864.203	787.035	787.602	808.594
LEVEL 7.6870	559.191	499.316	947.875	987.168	951.707	947.633	972.535	894.590	895.262	914.945
LEVEL 10.4772	559.633	499.578	1068.902	1106.012	1071.797	1066.977	1091.707	1014.109	1015.473	1036.125
LEVEL 15.7032	561.059	500.484	1292.582	1327.633	1296.762	1292.371	1322.762	1298.910	1239.949	1260.074
LEVEL 19.8040	562.176	501.316	1470.277	1503.949	1474.762	1468.758	1494.145	1416.473	1417.152	1435.164
LEVEL 24.0368	563.062	502.055	1652.184	1684.621	1668.688	1651.410	1681.176	1598.133	1599.496	1619.039
LEVEL 32.2002	564.902	503.445	1998.199	2031.293	2004.789	2000.039	2027.008	1946.137	1947.902	1966.426
LEVEL 35.9292	565.875	504.070	2154.691	2188.293	2161.996	2157.527	2182.621	2102.289	2104.949	2123.477

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	580.320	627.398	1178.227	1175.059	1187.109	1187.695	1198.602	1244.000	1225.973	1159.969
LEVEL	0.2652	591.484	637.805	1191.133	1186.719	1198.812	1199.137	1211.051	1255.406	1238.473	1171.922
LEVEL	0.5064	601.926	647.883	1203.367	1197.930	1210.191	1210.414	1221.922	1269.734	1251.891	1183.031
LEVEL	1.1646	630.453	676.062	1235.180	1228.066	1239.445	1240.035	1251.750	1296.438	1280.387	1212.680
LEVEL	1.6806	652.520	696.812	1260.711	1251.156	1262.656	1262.980	1274.539	1320.195	1302.844	1235.590
LEVEL	3.7654	743.199	782.312	1361.277	1345.246	1356.504	1357.051	1368.953	1412.242	1399.922	1330.430
LEVEL	5.2058	804.746	841.383	1431.668	1410.598	1421.859	1422.293	1433.680	1475.750	1463.617	1395.969
LEVEL	7.6870	913.598	943.152	1553.496	1524.840	1536.160	1536.129	1547.695	1587.781	1579.570	1510.477
LEVEL	10.4772	1032.629	1059.914	1690.316	1651.098	1663.242	1662.684	1674.145	1710.578	1710.281	1638.055
LEVEL	15.7032	1257.926	1273.145	1945.766	1890.191	1902.082	1900.590	1912.367	1946.898	1951.395	1877.219
LEVEL	19.8040	1436.480	1443.391	2144.926	2077.746	2088.703	2086.660	2100.008	2133.352	2139.090	2064.270
LEVEL	24.0368	1617.891	1618.059	2349.973	2271.832	2281.797	2279.875	2293.277	2329.039	2337.875	2258.398
LEVEL	32.2002	1967.477	1951.723	2741.484	2640.371	2649.703	2647.105	2651.438	2695.918	2706.836	2626.812
LEVEL	35.9292	2125.254	2102.832	2920.590	2808.672	2816.164	2813.805	2826.352	2861.746	2873.176	2793.945

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1232.523	1164.941	1090.703	1157.699
LEVEL	0.2652	1243.965	1176.234	1090.422	1157.551
LEVEL	0.5064	1256.863	1187.633	1090.406	1157.625
LEVEL	1.1646	1285.742	1217.180	1089.945	1156.859
LEVEL	1.6806	1308.824	1239.824	1089.754	1156.699
LEVEL	3.7654	1402.680	1334.492	1090.305	1157.656
LEVEL	5.2058	1470.133	1399.301	1090.480	1157.859
LEVEL	7.6870	1584.961	1513.563	1090.777	1158.152
LEVEL	10.4772	1712.187	1640.379	1091.445	1158.754
LEVEL	15.7032	1951.059	1878.383	1092.223	1160.172
LEVEL	19.8040	2137.238	2064.324	1092.691	1160.949
LEVEL	24.0368	2330.750	2257.531	1093.281	1162.020
LEVEL	32.2002	2699.191	2624.281	1094.680	1164.004
LEVEL	35.9292	2865.887	2790.914	1095.094	1164.879

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	2.210	2.287	2.460	3.052	2.797	2.568	3.184	2.304	2.500	2.467
LEVEL 0.2652	2.132	2.178	2.536	2.940	2.496	3.073	3.618	2.405	2.358	2.541
LEVEL 0.5064	2.350	2.125	2.652	2.989	2.674	2.751	2.910	2.470	2.337	2.472
LEVEL 1.1646	2.196	2.317	2.693	2.886	2.672	2.619	2.830	2.594	2.658	2.439
LEVEL 1.6806	2.110	2.213	2.673	2.783	2.563	2.643	3.059	2.619	2.445	2.508
LEVEL 3.7654	2.250	2.241	3.018	3.114	3.022	3.363	2.827	2.700	2.743	2.759
LEVEL 5.2058	2.249	2.244	3.018	2.880	2.874	3.165	3.069	2.900	2.792	2.769
LEVEL 7.6870	2.063	2.215	3.161	3.335	2.877	2.893	3.791	2.823	2.942	2.898
LEVEL 10.4772	1.946	2.096	3.179	3.497	3.182	3.120	3.487	3.099	3.059	3.019
LEVEL 15.7032	2.196	2.116	3.596	3.858	3.330	3.421	3.571	3.450	3.467	3.431
LEVEL 19.8040	2.121	2.236	3.519	3.632	3.631	3.786	3.810	3.652	3.269	3.622
LEVEL 24.0368	2.210	2.141	3.827	4.262	4.078	4.491	4.083	3.537	3.608	4.146
LEVEL 32.2002	2.159	2.009	4.358	4.448	4.457	4.598	4.893	4.128	4.231	4.057
LEVEL 35.9292	2.060	1.935	4.307	4.397	4.478	4.812	4.598	4.028	4.597	4.241

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	2.307	2.405	3.071	3.040	2.958	2.929	2.929	3.114	3.030	2.973
LEVEL 0.2652	2.542	2.614	2.623	3.064	2.903	2.932	3.140	4.160	3.278	3.283
LEVEL 0.5064	2.371	2.673	2.880	2.801	3.085	3.087	3.149	3.215	2.958	3.132
LEVEL 1.1646	2.373	2.604	2.857	3.070	3.194	3.058	3.144	3.905	3.117	2.880
LEVEL 1.6806	2.472	2.479	2.960	3.037	3.214	3.115	3.278	3.347	3.213	3.041
LEVEL 3.7654	2.701	2.549	2.974	3.147	3.230	3.076	3.459	4.397	3.171	3.372
LEVEL 5.2058	2.518	2.826	3.118	3.091	3.159	3.268	3.230	4.908	3.219	3.158
LEVEL 7.6870	3.053	2.975	3.222	3.222	3.000	3.210	3.409	5.021	3.709	3.364
LEVEL 10.4772	2.898	2.904	3.704	3.643	3.402	3.485	3.472	5.053	3.722	3.658
LEVEL 15.7032	3.323	3.331	3.878	3.926	3.800	3.582	3.733	4.943	3.897	3.733
LEVEL 19.8040	3.670	3.457	4.158	4.230	3.951	4.020	3.803	5.544	3.989	4.307
LEVEL 24.0368	3.542	3.612	4.388	3.806	4.323	4.115	4.441	5.508	4.279	4.370
LEVEL 32.2002	4.455	3.978	4.715	4.347	4.994	4.761	4.487	4.829	4.710	4.623
LEVEL 35.9292	4.194	4.411	4.706	5.179	4.631	4.881	4.833	5.343	4.851	4.695

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	2.987	2.981	3.006	2.799
LEVEL	0.2652	3.528	3.107	2.836	2.832
LEVEL	0.5064	3.371	2.994	2.856	2.750
LEVEL	1.1646	3.103	3.046	2.806	2.628
LEVEL	1.6806	3.232	3.095	2.809	2.878
LEVEL	3.7654	3.809	3.340	2.802	2.660
LEVEL	5.2058	3.758	3.462	2.945	2.652
LEVEL	7.6870	3.725	3.500	2.797	2.512
LEVEL	10.4772	3.408	3.505	2.790	2.667
LEVEL	15.7032	3.988	3.918	2.797	2.636
LEVEL	19.8040	3.950	4.280	2.863	2.500
LEVEL	24.0368	4.225	4.567	2.802	2.709
LEVEL	32.2002	4.727	4.574	2.600	2.680
LEVEL	35.9292	4.957	4.568	2.627	2.778

TAPE: FA30

FILE: 6

CHIP: 3453-11-5

DIRECTION: R

TDI-3

ALL LEVEL LIST OF
RESPONSE

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	557.117	498.191	665.785	700.453	687.430	667.922	674.245	699.937	633.723	641.128
LEVEL 0.2652	556.965	498.781	683.078	717.488	708.652	684.086	690.418	717.137	650.723	656.652
LEVEL 0.5064	557.047	498.445	697.324	737.621	719.125	697.492	701.016	736.035	666.828	672.922
LEVEL 1.1646	557.246	498.824	740.668	777.125	760.441	741.289	739.145	775.184	708.906	715.863
LEVEL 1.6806	557.746	499.105	772.906	808.137	792.496	775.301	781.996	808.277	741.664	748.129
LEVEL 3.7654	558.109	499.238	902.508	939.234	922.949	903.090	908.949	941.840	873.723	880.516
LEVEL 5.2058	558.602	499.773	994.945	1031.551	1011.051	992.637	1004.258	1032.316	964.906	971.031
LEVEL 7.6870	559.469	500.312	1154.062	1190.906	1170.695	1156.512	1160.219	1213.180	1125.184	1130.820
LEVEL 10.4772	560.297	500.570	1330.520	1367.207	1348.090	1330.883	1341.012	1389.453	1302.820	1309.977
LEVEL 15.7032	561.742	501.461	1663.945	1699.266	1686.621	1667.941	1669.187	1721.953	1634.875	1642.270
LEVEL 19.8040	562.977	502.344	1924.559	1959.059	1947.445	1928.637	1930.059	1973.488	1895.469	1904.289
LEVEL 24.0368	564.039	502.762	2191.641	2225.672	2215.340	2192.934	2201.516	2244.254	2163.816	2171.246
LEVEL 32.2002	566.371	503.934	2701.871	2736.867	2720.977	2702.328	2712.832	2751.926	2676.066	2683.094
LEVEL 35.9292	567.617	504.664	2930.172	2962.273	2949.711	2933.676	2936.742	2983.016	2905.535	2911.523

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	644.973	691.555	1197.125	1192.152	1194.684	1202.930	1210.328	1278.039	1250.891	1161.250
LEVEL	0.2652	661.543	705.020	1217.676	1209.105	1211.937	1220.520	1227.512	1298.789	1269.020	1178.812
LEVEL	0.5064	677.949	719.816	1236.324	1225.258	1228.898	1237.066	1243.395	1313.570	1284.359	1195.707
LEVEL	1.1646	721.031	762.785	1285.469	1270.367	1272.910	1282.840	1290.488	1365.512	1334.020	1240.301
LEVEL	1.6806	754.406	791.113	1323.766	1305.477	1307.594	1317.270	1324.754	1392.027	1367.922	1274.961
LEVEL	3.7654	886.012	918.746	1479.289	1444.277	1446.168	1455.352	1462.000	1530.270	1508.168	1414.004
LEVEL	5.2058	976.965	1006.535	1586.773	1538.824	1542.680	1552.723	1559.176	1625.574	1606.398	1511.531
LEVEL	7.6870	1138.699	1157.762	1776.246	1708.203	1711.355	1722.109	1728.969	1789.926	1777.445	1680.656
LEVEL	10.4772	1317.074	1326.469	1987.133	1896.262	1899.687	1911.582	1917.391	1980.734	1969.219	1868.566
LEVEL	15.7032	1649.660	1646.125	2378.379	2247.184	2250.129	2264.113	2270.039	2330.586	2319.492	2219.000
LEVEL	19.8040	1911.316	1894.805	2684.082	2524.715	2525.918	2540.348	2545.637	2606.555	2595.352	2495.102
LEVEL	24.0368	2179.875	2151.645	3000.730	2807.457	2809.809	2824.496	2829.930	2890.137	2876.395	2778.812
LEVEL	32.2002	2692.180	2638.750	3606.809	3350.945	3350.809	3367.367	3374.521	3434.109	3422.211	3321.109
LEVEL	35.9292	2923.297	2860.305	3881.555	3595.301	3595.750	3613.141	3620.590	3676.145	3666.852	3566.695

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	1276.559	1217.809	1090.258	1155.617
LEVEL	0.2652	1292.660	1235.176	1089.668	1155.090
LEVEL	0.5064	1309.937	1251.871	1090.141	1155.113
LEVEL	1.1646	1355.629	1296.527	1090.203	1155.730
LEVEL	1.6806	1390.570	1331.066	1090.484	1156.008
LEVEL	3.7654	1531.117	1472.668	1091.430	1156.734
LEVEL	5.2058	1628.500	1566.201	1091.910	1157.652
LEVEL	7.6870	1796.477	1736.527	1092.172	1158.363
LEVEL	10.4772	1987.891	1927.793	1092.770	1159.398
LEVEL	15.7032	2338.953	2275.824	1093.469	1160.621
LEVEL	19.8040	2614.496	2554.078	1094.352	1162.086
LEVEL	24.0368	2899.297	2836.215	1094.887	1163.539
LEVEL	32.2002	3442.414	3380.309	1096.105	1165.875
LEVEL	35.9292	3688.336	3625.262	1096.480	1167.082

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL 0.0000	2.126	1.891	2.493	2.686	3.231	2.427	3.427	2.950	2.351	2.275
LEVEL 0.2652	2.034	2.048	2.630	2.714	2.715	3.049	2.593	2.743	2.348	2.399
LEVEL 0.5064	2.071	2.015	2.648	2.837	2.381	2.914	2.744	3.006	2.195	2.450
LEVEL 1.1646	2.187	1.961	2.649	2.600	2.756	2.552	12.193	2.733	2.336	2.673
LEVEL 1.6806	2.170	2.258	2.742	2.952	2.774	2.789	2.904	3.217	2.589	2.802
LEVEL 3.7654	2.083	2.030	2.870	3.084	2.825	2.931	2.973	3.193	2.630	2.944
LEVEL 5.2058	2.171	2.055	2.875	2.933	3.036	3.012	3.228	3.098	2.856	3.108
LEVEL 7.6870	2.133	2.009	3.216	3.278	3.329	3.605	3.350	5.905	3.121	2.970
LEVEL 10.4772	2.059	2.022	3.437	3.432	3.365	3.128	3.530	5.593	3.475	3.510
LEVEL 15.7032	2.159	2.120	3.731	3.897	3.655	4.022	3.325	5.321	3.842	3.766
LEVEL 19.8040	1.968	1.883	4.076	4.224	4.050	4.651	4.053	6.247	4.185	4.299
LEVEL 24.0368	2.153	2.260	4.294	4.830	4.000	4.162	4.662	5.987	4.207	4.513
LEVEL 32.2002	2.023	2.182	4.950	4.853	4.904	5.092	5.350	5.771	5.251	4.719
LEVEL 35.9292	2.152	2.236	4.960	4.601	4.834	5.210	5.205	8.100	5.463	5.079

ALL LEVEL LIST OF
RESP STD DEVIATION

ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL 0.0000	2.302	2.434	2.564	2.742	2.981	2.704	2.924	5.563	2.707	2.641
LEVEL 0.2652	2.317	2.332	2.712	2.669	3.039	3.108	2.821	6.037	3.178	2.995
LEVEL 0.5064	2.316	2.515	2.672	2.873	2.735	2.985	2.910	6.509	3.189	2.902
LEVEL 1.1646	2.517	2.671	2.895	2.883	2.833	2.741	2.965	2.743	3.180	3.042
LEVEL 1.6806	2.430	2.464	2.932	3.070	3.222	3.300	3.358	6.090	3.261	2.981
LEVEL 3.7654	2.716	2.976	3.031	3.392	3.379	3.130	3.377	4.984	2.997	3.201
LEVEL 5.2058	2.983	3.045	3.130	3.334	3.410	3.251	3.107	5.052	3.138	3.378
LEVEL 7.6870	3.266	2.955	3.370	3.586	3.539	3.712	3.908	6.381	3.714	3.415
LEVEL 10.4772	3.300	3.215	3.623	3.836	4.158	3.649	3.651	4.422	4.370	3.852
LEVEL 15.7032	3.617	3.499	4.190	4.033	4.243	4.318	4.102	5.906	4.506	3.709
LEVEL 19.8040	3.973	4.180	4.396	4.350	4.398	4.466	5.005	6.148	4.489	4.342
LEVEL 24.0368	4.194	4.283	4.901	5.133	4.908	4.846	4.901	6.701	4.736	4.717
LEVEL 32.2002	4.830	5.150	5.582	4.687	4.934	5.179	5.147	7.596	5.326	5.231
LEVEL 35.9292	4.714	5.254	5.187	5.902	5.728	5.542	5.306	7.576	5.474	5.895

ALL LEVEL LIST OF
RESP STD DEVIATION

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	3.341	2.838	2.531	2.716
LEVEL	0.2652	3.415	2.929	2.554	2.710
LEVEL	0.5064	3.795	3.076	2.638	2.755
LEVEL	1.1646	3.493	3.244	2.746	2.615
LEVEL	1.6806	3.170	3.113	2.508	2.753
LEVEL	3.7654	3.779	3.326	2.691	2.849
LEVEL	5.2058	3.590	3.322	2.572	2.645
LEVEL	7.6870	3.945	3.420	2.596	2.684
LEVEL	10.4772	3.964	4.036	2.592	2.462
LEVEL	15.7032	4.145	3.973	2.764	2.612
LEVEL	19.8040	4.371	4.468	2.670	2.660
LEVEL	24.0368	5.088	4.942	2.654	2.665
LEVEL	32.2002	5.212	4.809	2.454	2.750
LEVEL	35.9292	5.469	5.305	2.741	2.729

TAPE: FA30

FILE: 7

CHIP: 3453-11-5

DIRECTION: F

TDI-3

RELATIVE SPECTRAL RESPONSE

ELEMENT		10	9	8	7	6	5	4	3	2	1
WAVELENGTH (μm)	376	.102	.102	.101	.104	.102	.102	.103	.104	.109	.10
	430	.515	.522	.520	.523	.519	.542	.526	.531	.537	.5
	473	.558	.568	.571	.573	.566	.574	.565	.569	.578	.5
	528	.643	.656	.656	.654	.667	.640	.652	.649	.729	.6
	571	.712	.709	.713	.710	.739	.712	.709	.710	.712	.7
	624	.740	.739	.748	.738	.766	.757	.744	.748	.758	.7
	678	.781	.782	.788	.773	.792	.806	.789	.790	.801	.8
	719	.837	.835	.837	.831	.837	.852	.836	.825	.836	.8
	774	.897	.895	.917	.902	.917	.921	.908	.910	.922	.9
	830	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.0
	876	.914	.917	.915	.915	.914	.920	.927	.928	.932	.9
	924	.749	.732	.743	.743	.738	.748	.746	.739	.726	.7
	981	.480	.473	.474	.475	.472	.471	.498	.501	.497	.5
	1019	.282	.279	.283	.279	.279	.277	.298	.301	.299	.3
	1081	.139	.139	.139	.138	.140	.140	.152	.159	.153	.1
	1130	.071	.070	.070	.071	.072	.073	.077	.079	.081	.1
		20	19	18	17	16	15	14	13	12	11
	376	.102	.102	.101	.102	.103	.097	.104	.102	.101	.10
	430	.533	.522	.515	.524	.524	.511	.526	.517	.515	.5
	473	.572	.564	.555	.567	.562	.559	.564	.557	.560	.5
	528	.645	.642	.639	.645	.643	.642	.639	.641	.645	.6
	571	.711	.704	.699	.701	.701	.700	.693	.702	.704	.7
	624	.761	.738	.737	.737	.735	.718	.728	.734	.734	.7
	678	.800	.788	.781	.781	.775	.762	.754	.774	.770	.7
	719	.839	.833	.836	.840	.829	.832	.841	.835	.838	.8
	774	.922	.903	.902	.902	.895	.894	.884	.896	.895	.8
	830	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.0
	876	.911	.908	.905	.915	.913	.906	.922	.919	.912	.9
	924	.713	.726	.731	.739	.740	.688	.739	.735	.733	.7
	981	.471	.472	.472	.475	.479	.467	.473	.470	.470	.4
	1019	.288	.282	.282	.283	.285	.281	.280	.277	.277	.2
	1081	.174	.151	.146	.146	.146	.141	.141	.137	.136	.1
	1130	.094	.078	.075	.075	.076	.073	.073	.070	.072	.0

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	1B	1A	10	9	8	7	6	5	4	3
LEVEL	0.0000	557.168	493.320	651.641	685.551	665.984	645.527	674.809	715.375	616.609	619.9
LEVEL	14.057	557.824	493.965	776.410	809.020	791.516	774.398	796.591	841.805	745.758	750.6
LEVEL	2.957	558.164	494.105	784.516	818.480	801.309	782.340	805.773	856.441	754.848	760.5
LEVEL	3.192	558.184	493.879	806.969	841.848	826.484	807.195	828.805	876.617	776.711	782.5
LEVEL	2.664	558.180	494.121	801.211	836.043	819.719	799.684	826.273	865.523	770.684	774.5
LEVEL	2.761	558.187	493.770	823.203	854.246	839.238	818.809	848.742	888.387	790.352	795.3
LEVEL	2.156	558.078	493.969	790.953	822.809	807.828	786.352	813.521	858.996	758.996	764.3
LEVEL	2.131	558.250	494.223	796.926	829.195	813.684	791.336	818.852	866.484	765.984	770.5
LEVEL	2.119	558.477	494.176	806.312	837.949	821.941	801.375	826.141	874.301	773.895	776.3
LEVEL	1.683	558.445	494.309	783.352	815.285	801.891	779.809	805.483	851.789	752.375	756.9
LEVEL	2.037	558.910	494.711	829.469	861.105	845.301	825.762	843.593	894.703	797.535	802.2
LEVEL	2.285	559.316	494.996	833.934	866.031	850.062	830.562	852.914	900.492	804.758	809.7
LEVEL	2.553	559.562	495.336	818.574	846.621	832.836	813.371	835.347	883.383	785.805	788.6
LEVEL	3.997	559.922	495.910	819.020	848.281	832.703	813.629	835.562	881.086	793.371	798.9
LEVEL	6.473	561.000	496.922	810.918	841.324	827.230	805.230	828.961	873.371	787.785	794.0
LEVEL	16.149	576.289	512.301	847.332	878.789	862.949	842.527	868.035	914.547	833.863	840.6
LEVEL	49.162	598.652	534.398	954.879	984.598	969.480	953.871	978.734	1031.902	954.867	966.7

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	2	1	20	19	18	17	16	15	14	13
LEVEL	0.0000	623.047	679.086	849.641	839.496	828.219	846.328	860.406	926.980	894.648	801.203
LEVEL	14.057	740.289	798.199	998.781	970.039	964.336	980.102	998.094	1057.238	1030.082	938.613
LEVEL	2.957	752.047	811.195	1013.145	980.387	974.082	990.363	1008.283	1070.676	1039.176	948.047
LEVEL	3.192	772.867	833.160	1038.867	1003.859	997.887	1014.402	1031.426	1096.648	1061.930	972.270
LEVEL	2.664	764.402	824.980	1027.703	996.648	991.320	1005.891	1023.853	1089.652	1052.695	965.434
LEVEL	2.761	782.727	843.629	1053.090	1017.066	1013.223	1026.059	1045.168	1110.930	1073.977	987.504
LEVEL	2.156	755.699	814.086	1019.586	984.871	980.645	994.062	1011.645	1074.293	1040.508	953.367
LEVEL	2.131	761.590	819.437	1026.289	992.809	987.805	1001.082	1018.053	1081.535	1043.855	959.855
LEVEL	2.119	766.875	825.105	1033.259	1000.609	997.898	1011.676	1028.027	1094.746	1060.098	971.297
LEVEL	1.683	748.977	807.922	1010.516	978.266	973.738	987.332	1004.125	1070.203	1032.871	946.207
LEVEL	2.037	788.453	845.207	1060.758	1025.586	1023.531	1035.652	1054.797	1120.789	1083.906	997.086
LEVEL	2.285	795.922	853.715	1065.293	1028.965	1026.430	1040.621	1059.414	1123.922	1090.352	1001.758
LEVEL	2.553	773.449	827.426	1038.141	1008.676	1007.102	1021.660	1040.551	1099.680	1069.973	981.559
LEVEL	3.997	784.277	843.902	1044.551	1011.785	1009.223	1022.902	1043.121	1104.535	1070.406	981.937
LEVEL	6.473	780.008	849.758	1043.078	1005.973	1002.996	1016.656	1035.783	1100.301	1062.895	973.520
LEVEL	16.149	824.191	932.152	1140.691	1062.004	1054.301	1065.590	1085.015	1142.879	1105.883	1014.762
LEVEL	49.162	945.367	1103.789	1327.012	1188.617	1181.453	1190.574	1214.266	1268.148	1226.594	1132.039

ALL LEVEL LIST OF
RESPONSE

	ELEMENT	12	11	2A	2B
LEVEL	0.0000	918.152	864.930	731.762	804.023
LEVEL	14.057	1051.043	1000.324	732.359	804.746
LEVEL	2.957	1060.676	1009.750	732.613	804.777
LEVEL	3.192	1085.488	1032.164	732.336	804.828
LEVEL	2.664	1079.031	1023.633	732.246	804.664
LEVEL	2.761	1100.191	1046.684	732.453	805.074
LEVEL	2.156	1066.496	1011.402	732.789	805.066
LEVEL	2.131	1071.969	1019.137	732.844	805.352
LEVEL	2.119	1084.352	1029.719	732.828	805.320
LEVEL	1.683	1059.254	1006.184	732.992	805.363
LEVEL	2.037	1109.008	1055.109	733.586	806.164
LEVEL	2.285	1113.418	1059.070	734.086	806.484
LEVEL	2.553	1093.555	1038.316	734.223	806.727
LEVEL	3.997	1094.266	1036.953	735.000	807.301
LEVEL	6.473	1086.332	1030.711	735.602	808.121
LEVEL	16.149	1124.484	1071.094	752.023	824.344
LEVEL	49.162	1247.539	1191.023	775.652	848.363

B. HIGH SPEED TEST RESULTS

These results are included to present bench test stand characteristics. The measurements are on sensor 11-17 at 6 illumination levels plus dark, TDI-9, forward and reverse.

FRAME 13 MM 7 DD 15 YY 77
 SUB CHANNEL 0 CHANNEL 1
 TDI SECTIONS 3 CLOCK MODE NORM
 DEVICE 5036, LOT 3453, WAFER 11 17

DIRECTION FOR
 OPERATING MODE TDI

280 mW/m² @ 650 nm

FFDATA

LEVEL 1

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	362.13	4.73	90.22
2	415.57	4.16	98.02
3	354.65	4.29	96.04
4	403.71	4.97	77.38
5	362.24	4.02	102.07
6	423.53	4.00	98.86
7	373.16	3.20	127.13
8	444.86	3.32	119.44
9	532.63	3.30	123.18
10	386.55	3.70	114.07
11	194.83	4.35	103.31
12	.00	.00	.00
13	168.23	4.68	98.33
14	173.30	5.51	79.74
15	172.12	4.43	99.80
16	.08	.45	956.28
17	169.55	4.65	99.35
18	.00	.00	.00
19	391.73	5.64	81.66
20	.00	.00	.00

FFDATA

LEVEL 2

140 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	556.59	3.87	59.89
2	601.30	3.38	65.60
3	543.40	3.57	62.62
4	576.95	4.45	47.54
5	550.11	3.15	70.81
6	603.69	3.10	69.40
7	563.42	2.86	76.91
8	625.07	2.79	77.07
9	723.83	3.09	70.64
10	570.92	3.29	70.40
11	404.16	4.02	59.77
12	156.83	3.55	62.96
13	384.64	3.84	63.46
14	381.12	5.32	43.61
15	391.18	3.17	76.64
16	203.22	3.30	70.26
17	387.18	3.51	69.81
18	155.46	3.72	63.27
19	610.11	4.88	49.61
20	153.16	3.88	59.56

FFDATA

LEVEL 3

70 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	628.67	4.06	39.44
2	670.18	3.52	43.46
3	616.98	3.25	46.10
4	645.41	4.43	32.21
5	626.73	3.15	46.44
6	677.98	3.36	42.00
7	637.14	2.71	52.83
8	697.96	2.55	55.33
9	801.08	2.86	48.28
10	657.67	3.19	47.31
11	498.39	3.73	39.15
12	245.88	2.69	49.82
13	482.61	2.69	54.21
14	473.85	4.60	30.24
15	490.65	2.58	55.61
16	297.48	2.62	52.41
17	489.07	2.70	52.92
18	254.05	3.38	40.54
19	710.93	4.31	32.84
20	249.71	2.66	50.50

FFDATA

LEVEL 4

35 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	692.28	3.63	26.54
2	731.29	3.32	27.69
3	679.86	3.76	23.13
4	704.83	4.64	17.97
5	691.23	3.17	25.76
6	740.98	3.35	23.32
7	703.47	2.51	30.52
8	765.36	2.61	28.99
9	866.10	2.46	29.85
10	726.19	3.02	27.27
11	566.16	3.23	23.60
12	311.78	2.62	26.01
13	552.92	2.50	30.12
14	541.08	4.41	16.31
15	563.78	3.02	23.33
16	368.56	2.87	23.18
17	562.55	2.53	27.49
18	325.54	2.69	24.30
19	787.07	3.70	17.67
20	322.59	2.49	24.61

FFDATA

LEVEL 5

17.5 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	745.73	3.42	12.53
2	783.40	2.92	13.58
3	729.23	2.76	13.63
4	752.02	4.02	9.02
5	738.61	2.45	14.01
6	786.63	2.69	12.05
7	744.93	2.07	17.03
8	805.79	2.47	14.30
9	905.25	2.44	13.98
10	769.14	2.81	13.99
11	613.93	3.27	9.32
12	353.28	2.27	11.81
13	595.60	2.49	13.07
14	580.50	4.07	7.99
15	602.95	2.89	10.81
16	405.53	2.95	9.97
17	599.89	2.26	14.21
18	365.84	2.03	14.87
19	817.59	3.93	8.84
20	353.31	2.66	11.52

FFDATA

LEVEL 6

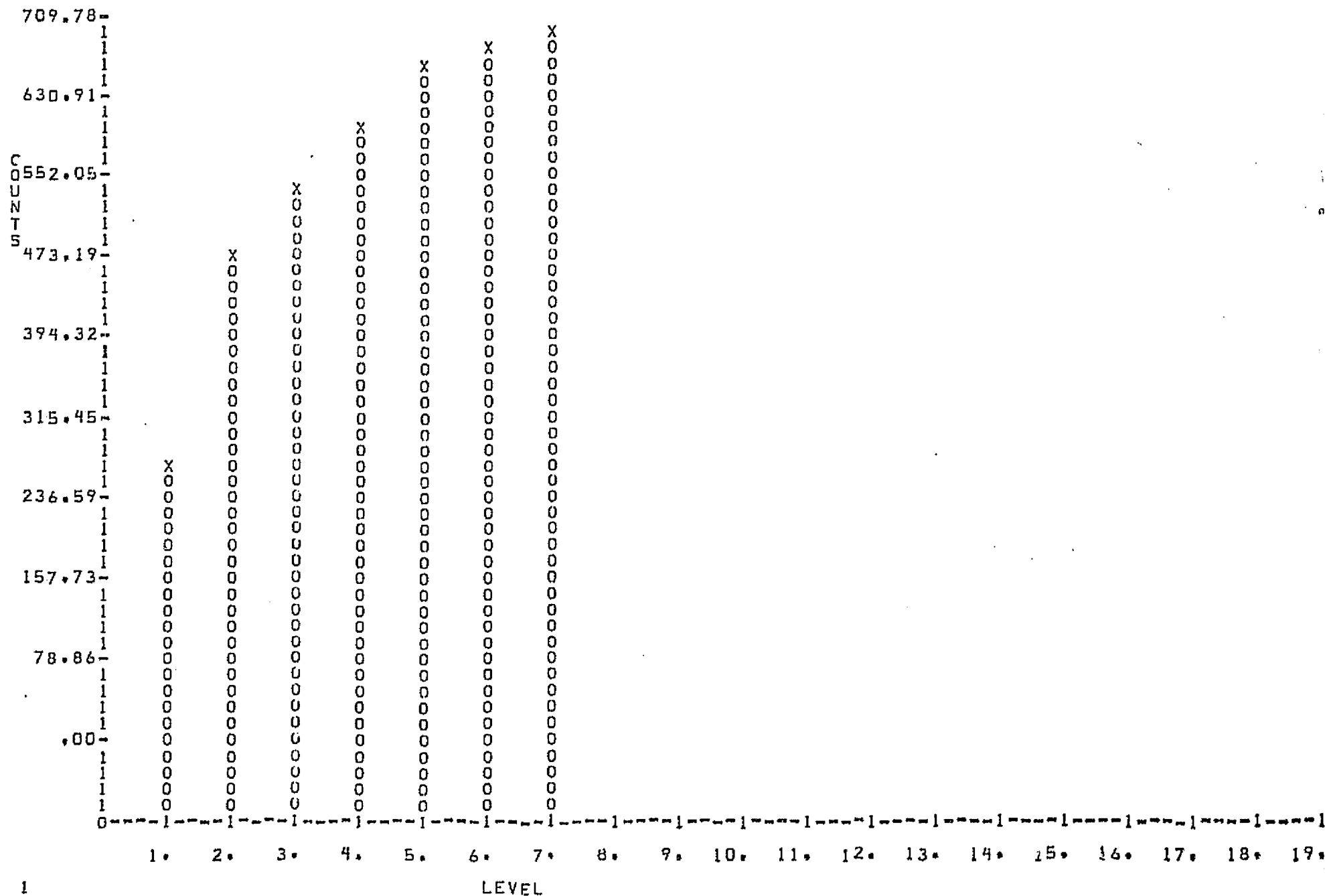
8.75 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	760.81	3.37	8.23
2	797.02	2.85	9.15
3	741.51	2.53	10.00
4	763.02	3.95	6.40
5	748.29	2.43	10.12
6	796.35	2.69	8.45
7	756.19	2.03	11.86
8	818.00	2.40	9.61
9	917.42	2.27	9.69
10	782.55	2.75	9.44
11	622.46	3.11	7.07
12	365.98	2.19	8.72
13	606.96	2.48	8.56
14	591.37	4.24	5.11
15	615.86	2.93	6.28
16	417.09	2.62	6.82
17	612.32	2.77	7.12
18	371.54	2.56	7.58
19	832.57	4.26	4.65
20	364.72	2.98	6.47

FFDATA

LEVEL 7

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	788.60	2.86	1.50
2	823.10	2.41	1.43
3	766.77	2.59	1.45
4	788.27	4.26	1.35
5	772.92	2.43	1.44
6	819.05	2.77	1.39
7	786.23	2.02	1.43
8	841.11	2.10	1.39
9	939.39	2.64	1.43
10	806.47	2.59	1.48
11	644.46	3.56	1.58
12	386.05	2.86	1.33
13	628.18	2.56	1.61
14	613.02	4.30	1.54
15	634.23	3.07	1.62
16	434.98	3.46	1.53
17	632.03	2.84	1.62
18	390.96	3.03	1.37
19	852.38	4.24	1.62
20	383.99	2.73	1.36



FRAME 13 MM 7 DD 15 YY 77
 SUB CHANNEL 0 CHANNEL 1
 TDI SECTIONS 3 CLOCK MODE NORM
 DEVICE 5036, LOT 3453, WAFER 11 17

DIRECTION REV
 OPERATING MODE TDI

280 mW/m² @ 650 nm

FFDATA

LEVEL 1

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	197.07	5.58	87.60
2	273.75	4.39	106.04
3	262.49	4.70	100.17
4	511.72	4.49	101.06
5	208.82	4.18	112.13
6	255.57	4.44	105.43
7	213.78	4.03	117.20
8	287.86	4.11	112.41
9	223.36	4.36	107.09
10	165.94	3.93	136.91
11	359.98	3.47	91.45
12	152.91	3.05	97.54
13	375.58	3.17	100.82
14	350.12	3.62	82.88
15	368.93	3.62	89.01
16	191.65	3.26	93.13
17	370.62	3.70	86.78
18	143.18	3.19	95.26
19	594.12	4.85	61.83
20	157.97	2.95	99.76

FFDATA

LEVEL 2

140 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	394.68	4.77	61.13
2	462.80	3.78	72.96
3	394.13	3.54	78.69
4	697.06	3.55	75.64
5	400.74	3.67	75.55
6	446.28	4.38	63.32
7	404.87	3.52	79.80
8	478.40	3.52	77.16
9	418.96	4.03	67.44
10	394.76	4.07	75.94
11	504.47	3.45	50.06
12	286.81	2.89	55.95
13	520.21	2.93	59.63
14	486.91	3.39	48.15
15	513.24	2.57	69.25
16	329.38	2.84	58.41
17	516.60	2.80	62.42
18	282.42	2.58	63.94
19	727.87	4.06	40.47
20	294.00	2.69	59.01

FFDATA

LEVEL 3

70 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	489.12	4.58	43.02
2	556.27	3.04	60.06
3	487.63	3.18	58.17
4	784.15	3.42	53.12
5	490.57	2.95	61.36
6	540.40	4.04	45.39
7	503.20	2.60	70.05
8	573.20	2.86	61.73
9	512.68	3.18	55.93
10	497.32	3.38	60.37
11	562.43	3.06	37.52
12	343.97	2.33	45.56
13	570.55	2.68	43.44
14	541.77	3.31	32.79
15	575.94	2.54	45.40
16	386.75	2.49	43.51
17	577.91	2.02	40.25
18	340.09	2.84	37.68
19	787.54	3.96	26.42
20	349.78	2.86	35.97

FFDATA

LEVEL 4

35 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	544.27	4.23	33.52
2	606.12	3.01	44.09
3	538.89	3.83	34.96
4	836.87	3.53	36.60
5	548.46	2.78	46.53
6	592.66	3.88	33.72
7	555.20	2.69	48.53
8	624.32	2.76	45.59
9	563.47	3.53	36.07
10	560.13	2.87	49.92
11	597.70	3.15	25.22
12	376.99	2.30	31.82
13	614.71	2.68	29.90
14	577.06	3.19	22.94
15	613.41	2.44	31.91
16	422.37	2.46	29.54
17	615.03	2.19	34.85
18	374.88	2.42	29.88
19	821.20	3.85	18.41
20	383.34	2.66	26.10

FFDATA

LEVEL 5

17.5 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	602.89	4.30	19.34
2	659.68	3.17	24.99
3	591.74	3.01	26.95
4	886.95	2.78	28.34
5	600.03	2.41	32.26
6	645.45	3.31	23.65
7	602.11	3.08	27.05
8	669.21	3.21	25.13
9	611.04	3.52	22.64
10	613.32	3.28	27.57
11	628.95	2.88	16.75
12	405.91	2.66	16.69
13	644.89	2.35	21.33
14	604.18	3.01	15.36
15	641.42	2.36	21.12
16	450.17	2.50	17.97
17	645.19	2.56	18.05
18	403.27	2.42	18.14
19	853.35	3.55	10.91
20	411.98	1.97	20.66

FFDATA

LEVEL 6

8.75 mW/m² @ 650 nm

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	642.73	4.05	10.70
2	698.03	3.05	13.41
3	631.57	2.81	14.70
4	927.01	2.49	15.61
5	640.10	2.20	17.12
6	684.60	3.32	11.75
7	644.20	2.89	14.33
8	709.00	2.87	14.28
9	651.69	2.93	13.33
10	658.88	2.78	16.09
11	652.90	3.03	8.00
12	428.38	2.33	9.41
13	666.38	2.26	11.75
14	627.04	2.98	7.82
15	664.82	2.57	10.28
16	471.60	2.75	8.53
17	667.20	2.26	10.68
18	424.52	2.10	10.74
19	873.36	3.36	5.58
20	431.55	2.05	10.32

FFDATA

LEVEL 7

ELEMENT	MEAN	STD DEV	SNR OR R(LAST LEV ONLY)
1	686.10	3.79	1.72
2	738.87	2.47	1.63
3	672.87	2.69	1.65
4	965.88	2.70	1.59
5	677.80	2.29	1.45
6	723.63	3.60	1.64
7	685.54	1.99	1.66
8	749.94	2.26	1.62
9	690.78	2.92	1.64
10	703.62	3.34	1.89
11	677.12	2.49	1.11
12	450.32	1.98	1.04
13	694.92	2.19	1.12
14	650.33	2.66	1.05
15	691.20	2.15	1.13
16	495.03	2.64	1.06
17	691.37	2.24	1.13
18	447.10	2.09	1.07
19	892.09	3.62	1.05
20	452.72	2.38	1.03

